AND ATMOSPHERIC RAILWAY GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 540 .-- Vol. XV.]

LONDON: SATURDAY, DECEMBER 27, 1845.

PRICE 6D.

EAD MINE FOR SALE.—The BELGRAVE MINE, Wednesday, Jarmary 7; 1846, at The Auction Mart, opposite the Bank of England, Wednesday, Jarmary 7; 1846, at Twelve o'clock, makes previously disposed of by pricontract, the LEASE of the above MINE, with all the BULLDINGS, ENGINES, WORK, and MACHINESTY, and the STOCK of MATERIALS on the MINE.—The sing of falls promising mips has cassed, and it is now OFFERED FOR SALE, in sequence of the death of the late proprietor. It is held under the Marquis of Westsor, at 15s, per ton reyally, whilst the price of the lead is under £15 per ton, and present the sequence of the death of the late proprietor. The held under the Marquis of Westsor, at 15s, per ton reyally, whilst the price of the lead is under £15 per ton, and a for 100 attents and the sequence of the mine, at a few or the sequence of the mine, at a few or the sequence of the mine, and a small additional to the sequence of the mine, and a small additional to the sequence may be made to Mr. John Taylor, Jun, Coed Dû, near Mold, who will five rinformation as to the state and prospects of the mine, and orders for its inspection, who is anthorised to treat with parties destring to purchase; or to Mr. C. Warton, conser and estate agent, 3s, Threadnesdole-street.

ery information as to the state and prospects of the mine, and orders for its imspection, at who is authorised to treat with parties destring to purchase; or to Mr. C. Warton, existence is an estate agent, 28. Threadneodile-street.

OUTHERN AND WESTERN MINING COMPANY OF IRELAND.

Registered Provisionally, and to be incorporated sudar Letters Patent from the Queen.

No charsholder lable beyond the amount of his shares.

Capital £285,000, in 16,000 shares, of £13 each.—Duposit £3 per share.

PROVISIONAL COMMITTEE.

Major N. L. BEAMISH, K.H.F.R.S., Ballinearrig, county of Cork, chairman Horstio Townsand, Eaq., D.L., Woodside, county of Cork

Bointel Leaby, Esq., D.L., Shanaklel House, county of Cork

Robert Carr, Esq., marchant, Sidney-place, city of Cork

Bobert Carr, Esq., marchant, Sidney-place, city of Cork

St. John Jefferyer, Esq., J.P., Greaville House, city of Cork

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James P. Bell, Esq., Fermoy, county of Cork

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James Little, Esq., Rah, Dimmanway, county of Cork

John Carmichael, Esq., Ordy, and the second county of Cork

John C

FORM OF APPLICATION FOR SHARES.

I Committee of the Southern and Western Mining equant you will allet me. shares, of £18 each to accept the same, and pay the deposit of £5

Capital \$725,000, in 15,000 shares, of £15 cach. Deposit £2 per share.

FOR JASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARING RATION (The article afforts the SAFEST, CHEAPEST, and most EXPEDY SAGEST (THEAPEST, AND FOR SUBMARING RATION (The article afforts the SAFEST, CHEAPEST, and most EXPEDY SAGEST (THEAPEST, AND FOR SUBMARING SAGEST (THEAPEST, AND THEAPEST, AND

XFORD, THAME, HIGH WYCOMBE, AND UXBRIDGE JUNGTION RAILWAY.—Notice is hereby given, that NO FUETHER APPLICATIONS for SHARES in this company will be received after the 27th inst. No grade-stroet, Dec. 17. By artior, R. MORTON CALEY, See

XFORD AND SALISBURY DIRECT BAILWAY next. Ate Chambers, Moorgate-street, Dec. 19, 1845.

OYAL NORTH OF SPAIN RAILWAY COMPANY
At the General Meeting of the shareholders of the above Company, held this
the London Tavero, Blishopsgate-street, conformably with public advertisement,
It was resolved.

"That the report of the directors, presented to the meeting, be received and that the Royal North of Spain Railway Company be forthwith dissolved. In pursuance, therefore, of the above resolution, all holders of scrip certificates under in England and France, and numbered from 18,331 to 55,000, are here to bring the same to this office, between the 30th and 31st inst., when, afte has been left two clear days, they will receive in exchange a cheque for a day a certificate, which will emittle the holder to the further advantages a director's exercis and a cordificate, which will emittle the holder to the further advantages and instance for the contract of the present contracts.

dribution.

Exchange-buildings, Dec. 19, 1845.

rs may receive the printed reports of the directors and engineers, at the op-

Shareholders may receive the grinted reports of the directors and engineers, at the opce, Shareholders may receive the grinted reports of the directors and engineers, at the opce, THE PATENT GALVANISED IRON COMPANY call PUBLIC ATTENTION to the following, amongst other GREAT WORKS executed with their patent article:

The ROOFS of the NEW HOUSES OF PARLIAMENT, at Westminster.

The ROOFS of the NEW HOUSES OF PARLIAMENT, at Westminster.

The SOLYS of SHEDS, for building "first-rates," in the ROYAL DOCKYARDS, at Woolwich, Portsamouth, Deptsord, &c. (the latter visible in passing down the Thames, and is an object of great beauty, having a contre span of sighty-two feet). The Timber-Sheds, and other buildings, in the Royal Dockyards, are also being roofed and constructed with this fire-proof material.

The BUOYS and other MARINE WORKS of the Honourable Corporation of the Trinity House have for two years been CONSTRUCTED with the Galvanised Iron, which resists effectually the action of sea water.

The celebrated ELECTRIC TELEGRAPHS of Mesers. Cooke and Wheatstone are CONSTRUCTED exclusively with the company's Galvanised Wires, &c.

And this indestructible iron, under all common influence—viz., sea water, saline or damp atmospheres, is admirably adapted for mental and the salience of the property o

escription.

Works—London, at Millwall, Poplar, near West India Docks; Staffordshire, Pom Loa Brook Fron-Works—from which corrugated fron and every description of alvanised or otherwise, can be supplied; also, from the South Wales Works, bridgend, Glauorogaushire.

CAUTION AND NOTICE.

This GREAT PATENT, like every good ose, is invaded, and, by the law's delays (and its miscrable state as regards the interests of patentises), the parties are able to evade the consequences some short time longer. The same thing has occurred wift other patents. In Nellson's Het-Blast Patent, the invasion work on for years: but one firm only had at last to pay upwards of (£120,000) one HUNDEED AND TWENTY THOUSAND FOUNDS FEMALYTIME BUYERS are WELDERS SEE LEABLE, and the PATENTEES WILL PROCEED AGAINST SI PARTIES who INVADE this—one of the most IMPORTANT INVENTIONS ever brought into use.

Actions are proceeding against Mesars, Morewood and Rogers, Mesars, Walker (Gospel Oak), and many others.

The company that this opportunity of siving the second advertisement.

cany take this opportunity of giving the most unequivent issued by Mesars. Morewood and Rogers on 8th A

PATENTES begt to call the attention of the PUBLIC to the ABOVE METAL, which is being USED extensively by the LORDS COMBISSIONERS of the ABOVE METAL, which is being USED extensively by the LORDS COMBISSIONERS of the ABOVE METAL, which is being USED extensively by the LORDS COMBISSIONERS of the ABOVE METAL, which is being USED extensively by the LORDS COMBISSIONERS of the ABOVE METAL, which is being USED extensively by the LORDS COMBISSIONERS of the ABOVE METAL, the BOARD OF ORDERS.

FOR ROOFING AND OTHER PURPOSES.

The large WAREHOUSES and SHEDS in the LIVERPOOL DOCKS have had the ZINO with which they were formerly covered STRIPPED OFF, for the purpose of being GOVERED WITH THE and the NEW DOCK WAREHOUSES of that city are likewise being COVERED WITH THIS METAL.

It is peculiarly ADAPTED for RAILWAY STATIONS, as forming a light, strong, and incorrodible covering.

This PROCESS is the ONLY ONE by which the QUALITY of the IRON is PRESERVED, instead of being injured; and it is, therefore, so very malleable, that it may be worked up with the greatest ease that articles of all descriptions.

No. 9, STEEL-YARD UTFER TRAMES-STREET

TENLE PATERNY CALVANIED D. ONLY ONLY ON METAL AND STREET.

THE PATENT GALVANISED IRON COMPANY.

—CAUTION.—The public are cautioned against giving credit to the mis-statements put forth by the Galvanised Iron Company in their advertisement.

The ONLY ACTION proceeding in regard to this Patent is one, NOT AGAINST MOREWOOD AND ROGERS, OR ANY OTHER PARTY CONNECTED WITH THEM, BUT A WRIT OF SUITE FACIAN AGAINST THE COMPANY'S PATENT FOR ITS CANCELLATION.

Nothing can be more purprisingly than the average of the patent of the

SED IBLY

ERR OWN EVIDENCE, TO be seen invaded that a series that their Patent is being invaded that a series that their Patent is being invaded that a series of their charge, the working of it was found by the jury to be impressed to follow the series of their charge, the working of it was found by the jury to be impressed in our patent, WITHOUT OUR LEAVE OR LIGENCE.

With regard to delay, it has been untrily on their part, as the records ill prove. They have syalled themselves of every opportunity to hinder a light part, as the records ill prove. They have syalled themselves of every opportunity to hinder it passed in the part of the secondary for the declaration of the secondary for th

DATENT GALVANISED IRON COMPANY .-This patent was decided by the jury, in Patti as in February last, to be invested, and their ve

BY HER MAJESTY'S ROYAL LETTERS PATENT.

SMART'S ELLIPTICAL CONVEX METALLIC PADDLE
FLOATS, FOR PROPELLING STEAM-SHIPS. The TRY Property of the comment of the

RYE AND THOMAS, MINE AGENTS AND DEALERS IN STOCKS, RAILWAY AND OTHER SHARES, 80, OLD BROAD-STREET, LONDON, AND AT LISKEARD, CORNWALL.

AMES LANE, SHARE AGENT

THOMAS DUNN, MINING AGENT, SHARE BROKER, AND GENERAL DESPECTOR, DEVONSHIRE. /3

WILLIAM TRENERY, DEALER IN RAILWAY AND MINING SHARES.—ESTABLISHED TEN YEARS.

OFFICES, No. 59, THREADNEEDLE-STREET, LONDON.

MESSRS, LAMOND, SMALE, and LAMOND'S PUBLIC SALE OF RAILWAY SHARES, &c., are HELD, at the Hall of Commerce, Threadnesd street, every TUSSDAY and FRIDAY, at One o'clock precisely.—Orders received until Four o'clock of the day prior to sale.—London, Dec. 25, 1445.

RON TRADE.—WANTED, a PARTNER, who ear mand about \$7000, to EXTEND a FORGE, now in full operation.

A. B., "care of W. W. Dorrington, Eag., 11. Chapel Walks, Liverpool."

TO PERSONS DESIROUS OF ENTERING INTO THE IRON TRADE.—WANTED, a PARTNER, that can advance £15,000, for which the works can be secured to him; £11,000 will be required to pay off the mortgage now upon the works, and the remains will be ample to carry on the trade. The works are nearly new, and were crected at a cost of upwards of £30,000, and are capable, at a trifling expense, of making 200 tone of bars, or rails, per week, exclusive of boiler plates, sheets, &c., the situation is good for the supply of coals and psi-tron, and the advertiser would undertake the management.—Apply to Mr. E. Bagnall, Sand Pits, Birmingham.

TO ENGINEERS, MILLWRIGHTS, &c.—A particular eligible opportunity new presents itself to any person or persons desirous or being into an ESTABLISHED BUSINESS in this LINE, in a large market town in Yahire, in the midst of a densely-populated manufacturing neighbourhood, where at printite competition exists. The concern includes an excellent foundry, is convenient for water and land carriage, is at present in full work, and in the hands of parties are anxious to retire from the business. Satisfactory reasons for which and other palars, may be known, by application to the owners, Messra. Armitage and Kaye, til plars, may be known, by application to the owners, merchants, Huddersfield.

CONSOLIDATED COPPER MINES OF COBRE ASSO CIATION.—Notice is hereby given, that a HALF-YEARLY GENERAL ING of the proprietors of this association will be HELD, in conformity with the Settlement, at the office of the company, 26, Antilinfrience, and Monday, the 181 January next, at One o'clock precisely. On that day two directors—viz., Robert get and George Frobyn, Esqa., and one saddtor, Alexander Druce, Esq., will get and George Frobyn, Esqa., and one saddtor, Alexander Druce, Esq., will get an electric property of the property of co of the company, 36, Austinfriars, at least four-ten clear days before the day of cle By order of the court of directors, 26, Austinfriars, Dec. 23, 1845. WM. LECKIE, Secretary

OYAL SANTIAGO MINING COMPANY.—The directors to broshe give Notice, that the HALF-YEARLY GENERAL MEETING of the share olders will be HELD at the office of the company, on Wednesday, the 7th of January total at Twelve for One o'clock precisely, when the directors will make their report and madder of a dividence of a divid

T. JOHN DEL REY MINING COMPANY.—N
hereby given, that the SEVENTH HALF-YEARLY DIVIDEND, bel
averaged by the series of the company, will be PAID at this office
day, the 8th January sext, and any six-coeding day, between the hours of free
—Forms for claiming the dividend may be obtained at the company's office, an
left three clear days for samination previous to payment. GEORGE D. RE
8, Tokenhouse-yard, Lothbury, Dec. 13, 1845.

MEXICAN AND SOUTH AMERICAN COMPANY
10. New Broad-street Mewa, Dec. 28, 1845.—The TWELFTH DIVIDING
19th SHILLINGS per share on the shares in this company, will be PAID on a cabe it.
19th day of January, 1846, between the hours of Kieven and Three.—Forms in details
the dividend may be obtained by the sharsholders on application, at the office.
H. W. SCHNEIDER Houseling breeze.

MOTICE TO THE PROPRIETORS AND SHAREMesers MITCHELL and FIELD bag to inform the FUBLIC, that they have REMOVED
from No. 5 a to No. 28, HAWLEY-ROAD, ENTITSH TOWN, where they have REMOVED
a spacious LABORATORY, fitted expressly for the performance of all OPERATIONS
CONNECTED WITH MINING.—Practical instruction to gentlemen in Assaying, Mineral
Analysis, and Manufacturing Chemistry in general.

All communications to be addressed to Mesers. Mitchell and Prior assayers, No. 25,
Hawley-road, Kentish Town.

MOKE NUISANCE—W. & J. GALLOWAY, ENGINEERS, MANCHESTER, beg respectfully to introduce to the notice of manufacturers, &c., their REGISTERED STEAM-ENGINE BOILER, having for its object the removal or the above nuisance, now so leadly complained of and se destribile to abote, and which, by this construction of boiler, is completely attained, independently of any additional air appearatus or attention from the firemain—Descriptive circulars may be obtained by pliention to W. and J. Galloway, Pasent Rivet Works, Manchester.

SHORT LINE OF RAILWAY.—TO BE SOLD.

proprietors of PROSSER'S PATENT GUIDE WHEELS having CEASED to the TEAINS on WIMBLEDON COMMON, have determined to SEEL the LI, gether with the ENGINE, CARRIAGE, TRUGUS, and PLANT; the length of is about 15 miles—the engine is in complete working order, 13-inch cylinder, strong the complete working order, 13-inch cylinder, strong and the property of the property

ONDON AND BIRMINGHAM RAILWAY.—NOTICE.
The following reductions in the Fares of Passengers, and the Rails for Pare
tween London, Birmingham, and Liverpool, will take place on the tot January, 18-

VEST FLANDERS RAIL-WAYS.—Notice is hereby that the FIRST HALF-YEARLY GENERAL MEETING of the proper undertaking will be HELD at the London Tayara, Bishopegate-street, London, the Tail day of January, 1464, at 70ne o'clock precisely, on the general

WEST FLANDERS RAILWAYS COMPANY.
hereby given, that INTEREST, at the rate of 3 per cent. per

HARVEY AND WEST'S
PATENT VALVES,
APPLICABLE TO PUMPS OF EVERY
DESCRIPTION.
The superiority of these valves, es economical in
respect both of trouble and superson her been provide

entees refer to nearly all the water-works, in the kingdom, by whem satisfactory is have been froily given. inciple adopted is that of "GETAINING

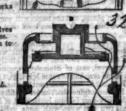
Pericapic antiples is that of "OSYARIFO EARTHY WAYER PASSAGE ST THE LAAF FOR-EMBURE AREA," thereby avoiding the great ion occasioned by the closing of ordinary and the loss caused by letting in alr under

Intil the invention of these valves (first used at East London Water-Works), the most econo-tic mode of raising water—vis., by the prinner-op, and the principle of expansive steam, as prac-

tch A shows the manner in which the valves com applied to air-pumps of steam-engines. Ich B, the manner of their application to a fur lifting water. he Values are shown open in both Sheinhes.

forces, HARVEY and WEST, HAVLE POUNDRY, CORNWALL. MINOPAL MANUFACTURESS
SE HARVEY and CO.

MAYLE FOUNDRY, CORNWALL.



NDREW SMITH, PRINCES-STREET, LEICESTER-GINEER, MACHINET, IRON AND BRASS POUNDER, &c.

EE and MATUFACTURER of improved steam-engines, rapid at y wheels, ralls and chairs, propellers for canal and river navig x-dressing, and other machinery, raising and lowering machines, track-cranes, traumway, traversing, and stationary purchase crais-engines and bullers, of various constructions; bone, sugar, and m of every description manufactured and repealed.

ENGINEERS, RAILWAY CONTRACTORS, MINING REALIS, RALLWAI OTHERS REQUIRING FINE GREASE for AXI.ES of every description.—JOSEPH PERGIVAL'S IMPROVED BREASE is after trials on machinery and axis of every kind where kept up—admitted to be the most useful, economical, and best prever offered to the peblic.

milite and practical men can be given, and tostimonials shown of its Samples flowarded on application at the manufactory, Green-street, Blackfriars-road, London.

WM. MORLEY, Esq., D

35

centiums.

be guaranteed capital, in addition to the fund continually accumulating from

, fully sufficient to afford complete security to the policy-holders.

rs assured to the extent of £1000 entitled (after payment of five annual preastend andvote at all general meetings, which will have the superintendence
of of the funds and affairs of the society.

lars are detailed in the prospectus, which, with every requisite informed by application to

A. R. IEVINE, Managing Direct

CURTIS ON MENTAL AND GENERATIVE DISEASES.

ANHOOD: the CAUSES of its PREMATURE DECLINE

REVIEWS OF THE WORK.

now (unange)— a permain or has work will easily distinguish a the host of medical writers whose pretensions to cure all disease thrust before the public. Its originality is apparent, and its per and hope to the maind of the patient.—Neval and Adlitary Gas mood should be in the hands of youth and old age. It is a mritten, and developes the freatment of a class of painful maladies he prey of the Illiterate and designing. United Service Gazette, d. Co. are to be consulted daily at their residence, No. 7, Frith-

A'MERT ON DEBILITY, NERVOUSNESS, AND ALL DISORDERS ARISING FROM EXCESS, &c.

punsanes, the Seventh Edition, in a sealed envelope, price 2a. 6d.; or free by portion to any address, or 3a. 6d.

ELF-PRESERVATION: A Popular Essay on those concealed disorders of the generality arrains and disorders and the concealed disorders of the generality arrains and disorders and the concealed disorders of the generality arrains and disorders and the concealed disorders of the generality arrains and disorders and the concealed disorders of the generality arrains and disorders and the concealed disorders and the conceale

m, and terminating in local and constitutional weakness, nervous debuity, me-incapacity, gonorrhea, spylithis, indigention, insanity, consumption, &c., with plain for their treatment and curs. Hisstrated with cases. By SANUEL LAWERT, gurgeon, 9, Bedford-street, Bedford-spuare, London, Honorary Member of the capital Medical Society, Licentiate of Apothecaries Hall, London, &c. arises positions of lover, hubsted, and parent, are the inherent privileges of and, but for the accidents of merchality, would be awarded equally to alt. To ag others, this casay addresses itself; and, by its perusal, many questions may sorily adjusted that admit of no appeal, even to the most confidential friend."—

easette.

seeken by S. Gilbert, 51 and 52, Paternoster-row; retail by Starie, 23, Ticht
draut; Hannay and Co., 63, Oxford-street; and Gordon, 146, Leadenhaltdaily, from nine to three, and from three till eight, and immediate replic
rs, if accompanied by the cossultation fee of £1 for advice, &c.
ri-street, Beford-sparse, London.

THE SILENT FRIEND: a medical work, on Human Frailty,

ON THE ANTHRACITE AND BITUMINOUS COAL FIELDS IN

ON THE ANTHRACITE AND BITUMINOUS COAL FIELDS IN CHINA.—THE SYSTEM OF MINING, AND THE PRICES OF COAL AND LABOUR IN ITS PRODUCTION AND TRAYS FORTATION TO PEKIN.

BY RICEARD C. TAYLOR, FULLARITHM.

We have seen the recent announcement of the sailing, from hence, of a vessel containing 308 tens of Pennsylvania anthracite, destined for Hong-Kong, in China. Some very natural speculations, have arisen from the circumstance, as to the probability of that country furnishing a market for American anthracite. As no details accompany the statement alluded to, we are not in possessions of any material finets whereby an estimate can be formed of the probable success of the undertaking, in a commercial sense; and we are not sure but the coal may have been supplyed for convenience unnerely, as ballast. In the East Indies various depots of European coal have been established, for the service of the British Government steamers. This fuel, for the most part, it is understood, consists of the anthracitous and partially bituminans scale of South Wales of course obtained at great expense. It appears that 3000 tons of English coal, as a freightage of a about 21 per ton, are annually imported into Rombay, for the Company's steamers. Bituminous coals have been derived from much less distant sources; among which the Burdwan coal-field, in the vicinity of Calcutta, imay be named. Mergui Island, also, in the Bay of Bengal, has lately furnished some steam coal to Singapore. The steam-ships on the China seas, during the war with that country, were supplied from these various sources. I do not propose to discuss the profitableness, or otherwise, of a Chinase market for our American anthracite. But as during the process of collecting statistical information for a proposed volume on "the geological and geographical distribution of coal and other mineral combustibles," some notes reached me, of an interesting character, which are not generally accessible to the majority of readers, with relation of the Chinase coal-fields, it has struck me that

The good missionaries were fully capable of describing the coals which rere supplied to Pekin, since they there erected a furnace or stove, in which any experimented on the properties of those combustibles, particularly the reference to the ordinary domestic uses, and for the warming of apartments and the purposes of their laboratory. Among the people of Pekin,

they experimented on the properties of those combustibles; particularly with reference to the ordinary domestic uses, and for the warming of apartments and the purposes of their laboratory. Among the people of Pekin, three kinds are in use.

1. That employed by the blacksmiths. It yields more flame than the other qualities; is more fierce, but is subject to decrepitate in the fire; on which account, probably, the blacksmithsuse it pounded in minute particles.

2. A harder and stronger coal used for culmary purposes, giving out more flame than the other sorts so employed; it is less quickly consumed, and leaves a residuum of gray ashes. There are several gradations of these. The best are hard to break, of a fine grain, a deep black colour, soiling the hands less than the others. It sometimes is sufficiently siliceous to give fire with steel. Others have a very coarse grain, are casily broken, and make a bright fire, leaving a reddish ash. Another species crackles, or decrepitates, when first placed on the fire; and falls down, almost entirely, in scales, which close the passage of the air, and stiffe the fire.

3. A soft, feebly burning coal, giving out less heat than the 2nd class; consuming more quickly, it breaks with greater facility, and in general is of deeper black than the sorts previously mentioned. It is commonly this description, which, being mixed with coal dust and a fourth part of clay, is employed to form an artificial and economical fael. This being moulded in the form of bricks and balls are sold in the shops of Pekin. Wagon loads of coal dust are brought to that city for this sole purpose. The coal merchants have also an intermediate quality, between the classes 2 and 3.

We cannot, in this place, recite the numerous details which are furnished by these intelligent Fathers. Suffice it to add, that nearly the whole of the properties, and applications are now in every-day use in the United States, and are familiar to all. They are, in fact, the natural results suggested by qualities possessed in

least a thousand years.

4. ANTHINACTE.—Another description of coal abounding about thirty leagues from Pekin, but which was not then in such general use there as the other kinds, is called by the Chinese Che-tan. Che means a stone, but tan is the name they give to wood charcoal. Therefore, according to the genius of the Chinese language, this compound word signifies a substance resembling or having the common properties of stone and charcoal. There can be little difficulty here, in recognising the variety of coal which, in our day, has been denominated anthracite, a compound word of similar meaning.

similar meaning.

The Chinese glance coal forms a remarkable exception to the unfavourable conclusion prevailing against Oriental coal; and, according to more recent authority than those we before cited, deserves to rank at the head of the list, in respect of its purity as a coke; although, in specific gravity, it does not come up to the character of the Pennaylvania or Welsh fuel; neither has it the spongy texture which contributes much to the glowing combustion of the latter.

So late as 1840, a Russian officer has described the coal formations of the interior, as occupying the western mountain range of China, in such

combustion of the latter.

So late as 1840, a Knesian officer has described the coal formations of the interior, as occupying the western mountain range of China, in such abundance that a space of half a league cannot be traversed without meeting with rich strata. The art of mining is yet in its inflancy among the Chinese; notwithstanding which, coal is thought to be at a moderate price in the capital. Anthractic occurs in the western range of mountains at about a day's journey, or about thirty miles only, from Pekin. The coal formation is largely developed, in which thick beds of coal occur. They appear to be of various qualities. Some of this coal, occurring in shale beds, is singularly decomposed, and its particles have so little cohesion, that they are almost reduced to a state of powder. Beneath these coal shales are beds of ferruginous sandstone, and below those occur another series, consisting of much richer seams of coal than the upper group. In this range are seen also both horizontal and vertical beds of conglomerate, accompanied by seams of coal, which have the conglomerate for the roof, and diorite or greenstone for the floor. As might be expected, this coal very much resembles anthracire. It is shining, of compact texture, difficult to ignite, does not flame in burning, or give out any smoke. Its substance is entirely homogeneous. Every thing respecting it leads to the belief that there had been a great development of heat at the period of its formation, or subsequently. The horizontal coal beds are the most important and valuable, and are denominated large, but no greater thickness than three and a half feet is quoted. The blacksmiths and those who work in copper, prefer this coal, on account of the intense heat which it gives out. Throughout the whole of this mountain range may be continually seen the outcrops of this combustible, where they have never, as

were largely emplied with it. It is these assessed by means of pits, like wells and we infer thes, like sassing all the brown coal deposites, the beds were hericanil, and all any process of the analysis of the coal, interstratification. Thus, therefore, we posses ordering, the allo prevails towards cannot be allowed to the coal, and graphic towards cannot coal, and the coal, and capability and the coal, and coal and capability and the coal of bituminous coal, of anthracies, glance coal, and graphic anthracies; all of which, for ages, have been in common use in this remarkable country; and have been there employed for every domestic purpose known to five more of iron, copper, and often means; and the manufacture of iron, copper, and often means; and the manufacture of iron, copper, and often means; and the manufacture of iron, copper, and often means; and the manufacture of iron, copper, and often means; and the manufacture of iron, copper, and often means; and the manufacture of the prevention of mining coal would be conducted with some regard to science, in relation of mining coal would be conducted with some regard to science, in relation to sinking, faringing, and carried on with all the persoverance of that industrious people, the operation of mining coal would be conducted with some regard to science, in relation to sinking, faringing, and carried on with a manufacture of the water. If local circumstances allow, they cut affilmage galaries if not, they abunded the water of the mine is capital to the control of the water. If local circumstances allow, they cut affilmage galaries if not, they abunded to the control of the water. The matack and shovel, the pick and the language and the pound of the control of the c

Note.—The prices and admeasurements, which are quoted in the foregoing article were reduced to the United States and English currencies and measures, from the Russian furnished by the engineer Kovanito; who, in like manner, converted them into the Russian from the Chinese standards. In consequence of the triple conversion of standards additional care has been taken to avoid error in these calculations.

CLARIDGE'S ASPHALTS.—As much misappreliension exists as to the inflammability of this substance, and its consequent danger when used for the covering of roofs, an experiment wastried last week on the works, as Stangate, tending to prove that not only is it not dangerous, but that it extinguishes, rather than increases, the fire. A small brick building, about four or five feet square, and three feet high, representing a house, with a wooden roof, covered with their asphalte roofing cement, was filled with shavings, wood, and other combustibles, and then set on fire; the whole burnt most fiercely, and, when the roofing timbers had become too weak to bear the covering, it fell in the form of a crumpled sheet, completely smothered the rapidly burning wood, and prevented all further combustion; being perfectly water-proof, and easily repaired, it is exceedingly well adapted for flat roofs, or for paving of laundries, stables, cellars, &c. &c.

Glossary of English Mining Terms.

In compliance with the request of several corresp menced the publication of a complete series of technicalities used in English and Foreign Mining—in fulfilment of our promise, those of Cornwall and Derbyshire are now completed; and in our next, we shall commence the terms used in Spanish Mining.

DERBYSHIRE.

Horn—A line running horn is at an angle of 45 deg, with the face of the coal.

Jackhead pit—A well sunk inside the mine for various purposes.

Jackhead pismp—The house water pump of an engine is sometimes so called.

Jig pin—A pin used to stop the machine in drawing when necessary.

Judge—A staff to measure underground work with—viz. the holeing in coal work. Jugge—A staff to measure underground work with—viz. the holeing in coal work.

Jumper—A large borer, an iron instrument worked by hand, and steeled at each end like chisel bits.

Kevil—A sparry substance found in the vein composed of calcareous spar, fluor, and barytes.

Kibble—A bucket used for drawing up lead ore out of the mine.

Kit—A wood vessel of any size.

Kiti—Small particles of lead ore.

Kneckisgs—Lead ore with spar as cut from the vein.

Kneckisgs—Lead ore with spar as cut from the vein.

Kneckisgs—Lead ore with spar as cut from the vein.

Kneckisgs—Lead ore with spar as cut from the vein.

Kneckisgs—Lead ore with spar as cut from the vein.

Kneckisgs—Small sparry veins in the rock.

Leadings—Small sparry veins in the rock.

Level—An adit, gallery, or sough; generally, the main water-course in a mine.

Lid—See Cap.

Limp—An iron plate used to strike the refuse from the sieve in washing lead ore.

Lid—See Cap.

Limp—An iron plate used to strike the refuse from the sieve in washing and ore.

Londing pick—A pick made purposely to cleave or rive up coals and prepare them for laying on the corves.

Loch—A cavity in a vein.

Lot—A cavity in a vein.

Lot—A certain proportion taken as dues for the lord of the manor, or owner of the mine.

Maul—A large hammer.

Maundrill—A pick for various purposes, but generally used to undermine.

Mear—Thirty-two yards of ground on the vein.

Neadle, or pricker—A thin rod of iron put in shot holes, while they are rammed up, and which being then drawn out leave a hole into which the match is introduced for setting fire to the charge.

Noger—A jumper or borer; a drill.

Noge—Square pieces of wood which are piled on each other to support the rod of a coal mine.

Noper—See Loading pick.

Noper—See Loading pick.

Old man—Places worked centuries ago, or in former ages.

O'erlayer—A piece of wood on which the sieve is placed after washing the ore in a vat.

ore in a vat.

Opens—Large caverns.

Opens cast—When a vein is worked open from the day or surface.

Open cast—When a vein is worked open from the day or surface.

Ore—The mineral as produced in a mine.

Pack—A quantity of materials, either wood or coals, &c., piled up to support the roof, or for other purposes.

Pec—A piece of lead ore.

Pillar—A support for the roof, of timber, stone, or other material.

Pipe—A vein running unlike a rake, having a rock roof and sole.

Phimb—A line and lead to measure with.

Poling—A plank or piece of wood to prevent earth or stone from falling.

Possession—When stowees or wooden frames are placed on a vein it is said to be in possession.

to be in possession.

to be in possession.

st—A pillar of coal or other strata left,

richer—A thin piece of iron used to make a hole for the fuzze or match
to fire a blast.

Printer—A thin piece of from used to make a noie for the fuzze of indea, to fire a blast.

Printer—A variable distance between two possessions.

Printer—A piece of timber used as a support for the roof.

Rate—An oblique vein.

Ratehell—Loose stones.

Rib—A pillar of coal left as a support for the roof.

Richet—See Fang.

Richet—See Fang.

Richet—A rocky substance which divides the vein.

Ringer—A crow bar.

Ringer—A crow bar.

Ringer—A man working above his head in the roof is said to be rising.

Roof—The part above the miner's head; that part of the strata lying immediately upon the coal.

Rubble—See Ratchell.

Rus—When the earth falls and fills up the shafts or works it is said to run.

Safety fuse—An excellent invention, by Messrs. Bickford, Smith, and Davey, of Camborne, for the safe and certain blasting of rocks in mines and quarries.

and quarries.
caffold—In a mine a platform made, where some miners work above the

Scaffold—In a mine a platform made, where some miners work above the heads of others.

Scouring bit—A bit attached to the end of boring rods for the purpose of extracting the rubbish.

Scraper—An instrument to extract the pulverised rock, &c., from shotholes when boring.

Scrim—A small vein.

Scat or sole—The floor or bottom of the mine.

Shaft—A pit, the perpendicular entrance to the mine.

Shaft—The time a miner works for one day.

Shift—The time a miner works for one day.

Shot—Blasting.

Sinking—Working deeper or downwards.

Skep or Skip—A square box (usually wrought iron) in which the coals are sent up to the pit's mouth.

Slipes—Flat pieces of iron for the corves to slide on.

Slipes—Flat pieces of iron for the corves to slide on.

Slipe—A communication between two adits.

Smelting—Reducing the ore to metal.

Smitham—Small lead ore dust.

Smut—Decomposed dark earthy substance, or coal decomposed by the air at the extract of the corves for the corves to the corves of the corve

comiton—Small lead ore dust.
 composed dark earthy substance, or coal decomposed by the air at the surface of the earth.
 cole—The seat or bottom of the mine, applied to horizontal veins or beds.
 cole tree—A piece of wood belonging to stowces to draw ore up from the cole.

some tree—A piece of wood belonging to stowces to draw ore up from the mine.

Sough—An adit or level for carrying off the water.

Spanner—An instrument to turn screws with.

Spanner—An instrument to turn screws with.

Stays—Pieces of wood to secure the pumps in the engine-shaft.

Stemmer—A piece of iron with which clay is rammed into the shot holes to make them water tight.

Stemples—Wood placed to go up and down the mine instead of steps.

Stokings—Narrow veins of ore.

Stoping—Cutting mineral ground to be worked.

Stoping—Cutting mineral ground with a pick; working downwards.

Stoping—Cutting mineral ground with a pick; working downwards.

Stoping—Pawing stowce; a small windlass.

Stowces—Pieces of wood of particular forms and constructions placed together, by which the possession of mines is marked; a pair of stowces possess a mear of ground.

Strings—Small voins of ore.

ses, a mear of ground.

s—Small veins of ore.

A shaft underground, a well or lodge for water.

Sump.—A shaft underground, a well or lodge for water.

Svallones—Caverns or openings where the water loses itself.

Tucklers—Small chains to put round the loaded corves.

Thart.—A long adit in a coal pit.

Thurst.—The ruin of the incumbent strata after the pillows and stalls are wrought out.

Troubles.—Wooden drains like troughs.

Troubles.—Faults or interruptions in the stratum.

Tranks.—Wooden spouts to convey wind or water; small boxes in which rubbish or dirt is sent up out of the mine.

Tub.—A cast iron cylinder put in the shaft instead of bricking, for the purpose of beating out the water and making it rise to a level.

Tugs.—Hoops ofiron fastened on the corves to which the tacklers are affixed.

Turntree.—A part of the drawing stowces or windlass.

Underlay.—When a vein hides or inclines from a perpendicular line it is said to underlay.

Vein.—Any substance different from the rock; a rake vein is oblique; a pipe vein nearly horizontal.

Vat.—A wooden tub used to wash one and mineral substances in.

Wash hole.—Where the refuse is thrown.

Walling—When the roads in the mine are made with stone it is called walling. The side of the mine or gangart is frequently called the wall. Wastes—Vacant places left in the gobbing, on each side of which the rubbish is packed up for the better support of the roof. Water holes—Places where the water stands. Weigh board—Clay intersecting the vain. Weigh board—An iron tool to get ore, split rocks, &c. Whim—An engine or machine to draw ore, &c. worked by horses. Wind way—A passage left purposely for air. Wind bore—The bottom pipe in a lift of pumps. Wind holes—Shafts or sumps sunk to convey wind or air. Windlass—A machine used to draw up ore, &c. See Stowess, by which name it is commonly called.
Windless—A place in a mine where the air is bad or short, is said to be windless—or airless.
Vokings—Pieces of wood ascertaining possession. Stowees.

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

HOLMBUSH MINING COMPANY.

Dec. 23.—Since my last report, we have set Hitchins's engine-shaft to sink below the 110 fathom level. In the 120 fathom level cross—cut the ground continues favourable, and we think we have got under the hard floor. In the 110 fathom level, west of Hitchins's shaft, the lode is ten inches wide, and poor; in the stopes in the back of this level, west of Hitchins's winze, the lode is fitteen inches wide, and worth 300, per fathom; east of ditto the lode is ten inches wide, and worth 120, per fathom; in the stopes east of Doedge's winze the lode is ten inches wide, and worth 302 per fathom; in the stopes east of Doedge's winze the lode is ten inches wide, and worth 122 per fathom. We have resumed driving the 100 fathom level, west of Hitchins's shaft; the lode is eighteen inches wide, and worth 112 per fathom; in the stopes and to doe is three feet wide, producing stones of lead in places; in the rise above the 100 fathom level, west of Hitchins's shaft; the lode is eighteen inches wide, and worth 101 per fathom. In the ninety fathom for the past week; in the stopes in the back of the 100 fathom level the lode is fourteen inches wide, and worth 201 per fathom. In the ninety fathom level, driving north, the lead lode is two feet wide, at present worthless. In the sixty-two fathom level west we have just got through the cross-course. In the rise in the back of the 80 fm. level, against Bray's shaft, the lode is small and poor.—W. Lean. Oallington Mining Company.

Dec. 22.—In the 100 fathom level, driving north of Johnson's engine-shaft, the lode is much disordered, and split in branches, producing silver-lead ores; in the south end, the lode has not been taken down. In the ninety fathom level north the lode continues of a most promising character; the ground is hard for driving, so that our progress is slow; every time the lode is taken down, we are looking forward to an improvement, but so far our expectations have not been realised; the present back will set at 8s. in the

to have about 90 tons.

WHEAL MARY SILVER AND COPPER MINE, CALSTOCK.

Latchley, Dec. 13.—Having inspected Wheal Mary Mine, I find you have a most promising speculation, with two great champion lodes. The south lode is cut twenty fathoms from surface, being about twelve feet wide, composed of mundic, spar, iron, a small portion of antimony, and coated throughout with strong yellow ore. At the next lift, I expect to see a great change for the better on this lode. In sinking fifteen fathoms deeper, we shall cut the south lode in the engine-shaft, should it continue its present underlay, which is from two and a half to three feet. A cross-cut is continuing north, when we hope, should the ground not alter for the worse, to cut the north lode two months hence. This is also a strong lode; beautiful copper is seen on this lode, close under the surface.

[A special meeting of shareholders in the above mine took place at the office of the secretary (James Crofts, Esq., King-street, Cheapside), on Thursday, the 18th instant, when it was resolved to extend the number of shares from 256 to 1024, and to make a call of 11. per share on 1024 shares. A finance committee was appointed for the future management in London of the business of the mine.]

office of the secretary (James Crofts, Eaq., King street, Cheapside), on Thursday, the 18th instant, when it was resolved to extend the number of shares from 266 to 1024, and to make a call of 11, per share on 1024 shares. A finance committee was appointed for the future management in London of the business of the mine.]

ROSCARROCK SILVER-LEAD MINING COMPANY.

**Dec. 19.—This mining sett is situate on the north part of the barton of Roscarrock, in the parish of Endellon, Cornwall, and extends from east to west upwards of two miles, and an average width from north to south of more than 400 fathoms, with the promise of an additional grant to the south, if it should be required. The locality embraces advantages rarely to be met with; it extends along the cliffs, wherein adits may be driven, and the lodes proved to the depth of forty fathoms or upwards, without the aid of machinery. There are metalliferous veins to be seen in the cliffs, and on the beach along the whole range of the sett, and the accompanying strata is such as may be considered purely congenial to mineral. At Fox Hole, in a part of the sett about 400 fathoms from the western extremity, there is a very large gossan lode to be seen at the surface, on which we have opened a level a little above high water mark, and extended it about nine fathoms; it was about north-east and south-west, with a very regular underlay, and is now from three to four fest wide in the end, accompanied by a pretty flookan on the footwall, and is spotted with lead and mundic. At Crowser, there is a lode that may with propriety be called a silver-lead lode, as there is stuff to be seen at the surface worth about 60 per cent. for lead, and from twelve to twenty ounces of silver per ton. This place, especially the Rillows, will be thought highly of by any practical miner. A fine stream of water is available for all the purposes of crushing and dressing the ores, and, according to present appearances, who have a seen at the surface worth about 60 per cent. [At a special meeti

hances the value of this mine.

JOHN SEYMOUR.

HAWKMOOR MINING COMPANY.

Dec. 23.—The lode in the western engine-shaft is twelve inches wide, and unproductive. In the south engine-shaft no lode has been taken down in the past week. The lode in the fifteen fathom level, east of Hitchins's engine-shaft, is twelve inches wide, composed of spar and capel; and in this level west the lode is 16 inches wide, producing good stones of ore.—P. RICHARDS.

TINGROFT MINING COMPANY.

Dec. 22.—Our sumpmen have completed the pitwork to the ninety fathom level, and the water is drained to that level; very little has been done in the bottom levels since my last, consequently no alteration. The lode in the eighty east continues large, producing some ore and very promising; the lode in the eighty west is two and a half feet wide, producing some good quality

Dec. 16.—The lode in the seventy end west is eighteen inches wide, worth 18th per fathom. In the eighty end west the lode is six feet wide, worth 70th per fathom without seeing morth wall; the lode going back east is stripped down about three fathoms, worth 70th per fathom. In the ninety and west the lode is two feet wide, worth 70th per fathom. In the ninety and west the lode is two feet wide, worth 12th per fathom. In the ninety and west the lode is two feet wide, worth 6th per fathom. In the 110 end, driving west, the lode is one foot wide, worth 6th per fathom. In the 110 end, driving west, the lode is one foot wide, worth 6th per fathom. In the 110 end, driving west, the lode is one foot wide, worth 20th per fathom. In the 110 end west the lode is two feet wide, worth 20th per fathom. In the 140 end east the lode is eighteen inches wide, worth 18th per fathom. In the 140 end east the lode is one foot wide, with atoms of grey ore in it; it is not yet communicated with Stray Park. The levels below the 140 have been suspended since last report, and will not be recumed before the water is let down from Stray Park, fearing to endanger the new lodes. Not less than 500 tons will be sampled next time, which will leave a larger profit to the adventurers than the last sale.

SILVER VALLEY MINING COMPANY.

Dec. 22.—I beg to say, that the water is in fork to the thirty fathom level; the shaft is full of stuff to this place, and the shaft in order for clearing the stuff to the bottom; the level is driven east nine fathoms, and west eighteen fathoms, on the course of the lode, which is from nine inches to two feet wide, composed of capels, spar, and peach, producing some good of the lode is four feet wide, composed of capels, spar, and peach, producing some good of the lode is four feet wide, composed of capels, spar, and peach, producing some good of in work.

BARROM BIRING COMPANY.

Dec. 22.—By way of report this week, I beg to say, in Stainsby's engineshaft the lode is two feet wide, composed of capels, spar, and pea

the forty-four fathom level, east of Garden shaft, or Ribb lode, the lode is small and unproductive.

CONSOLIDATED TREFOIL MINING COMPANY.

Dec. 22.—The lode in the seventy fathom level, east of Henwood's shaft, is twenty inches wide, producing good ore, and opening ground for tribute; the lode in the aeventy fathom level west is aix inches wide, producing a small quantity of ore; the lode in the rise, in the back of the seventy fathom level east, is one foot wide, good saving work. By means of the late floods, which has greatly increased the water, and some breakages in our East Tyetoil engine rod, we have not been to work at this level since Tuesday last, and it is not likely that we shall do much more at this level until the new engine is set to work. The founder has promised to get all his work ready in a fortnight; we are keeping up our work close, to be ready as soon as possible after we have our materials; the engine is nearly complete. The lode in the rise against Williams's shaft is one foot wide, saving work. In Williams's shaft the lode is much as last reported.

GUNNIS LAKE MINING COMPANY.

Dec. 23.—At Chilsworthy, we purpose esting the engine to-work to-morrow, and, after the Christmas holidays, we shall resume sinking Bailey's engineshaft. The lode in the adit level east is two and a half feet wide, composed of gossan and spar, very kindly.

EAST TAMAR CONSOLIDATED MINES.

Dec. 23.—At Whitson, the ground in Hitchins's shaft is very heavy, and the old timber is very much decayed, so that the shaftmen have been busily engaged in taking out the old timber, and putting in new, which work is done, and our lift dropped six fathoms, which will fork the water below the thirty fathom level, which will be done this week. In the south shaft we have cleared the twenty fathom level sixty fathoms towards Furzehill. Furzehill is just the same in appearance as last week. Charlotte is just the same.—B. Robins.

Dec. 22.—The ground in the 115 cross-cut is a little more favourable for

the twenty fathom level sixty fathoms towards Furzeniii. Furzeniii che same in appearance as last week. Charlotte is just the same.—B. Robins.

WEST WHEAL JEWEL MINING ASSOCIATION.

Dec. 22.—The ground in the 115 cross-cut is a little more favourable for driving. The 100 fathom level west, on Wheal Jewel lode, is small and unproductive; in the 100 fathom fathom level east, on ditto, the lode is worth 100. per fathom. In the eighty-five fathom level east, on ditto, the lode is worth 50. per fathom. In the winze, sinking below the seventy west, on ditto, we have been obliged to suspend operations here, in consequence of w.ber, and must wait till the intersection of the cross-course in the level below, which, no doubt, will drain the water to that depth, and enable us to sink the winze referred to dry, which was commenced in the cross-course, in order to expedite sinking. The eighty-five fathom level west, on Buckingham's lode, is six inches wide, composed of prian and spar; in the eighty-five west, on the south branch, the lode is a little more promising in its appearance, and the ground more favourable; the ground in the eighty-five cross-cut south is much the same as when last reported. The thirty east, on Morcom's lode, is two feet wide, composed of spar and mundic. The twelve fathom level west, on Tolcarne lode, is worth 101, per fathom for tin; in the twelve fathom level east, on ditto, the lode is containing good stones of tin. In Wilkinson's engine-shaft, sinking below the thirty fathom level, the lode is three feet wide, composed of spar, mundic, and spots of ore.

S. Lean. R. Johns.

containing good stones of the. In withmost as significant, analog seeds the thirty fathom level, the lode is three feet wide, composed of spar, mundic, and spots of ore.

S. Lean. R. Johns.

Dec. 20.—We have done but little in developing the north part of the lode at the ninety fathom level since our last report, in consequence of such large quantities of water issuing from every part of it, that it has been impossible for the men to work here one-third of their time; we trust, however, that the lode will become drained in the course of a few days, when they will resume their work with fresh vigour. We feel particularly finxious to carry on operations in this part, both on account of the high temperature of the water being a favourable symptom, and the north part of the lode being fast approaching that of the south, they will evidently be found to have formed a junction not many fathoms east of our present workings. Although the men of whom we have just spoken have been prevented working in the bottom of the mine, they have, nevertheless, been kept at work in ainking the winze in the sixty fathom level west, the lode in which is very much improved. We have intersected another cross-course in the forty fathom level west; it is underlaying east, and consists of friable quartz, containing small veins and spots of pure copper pyrities; this is not the lead lode to which we have formerly called your attention. The lode, west of the cross-course, is about three feet wide, composed of capel, carrying a little copper ore. At the new mine, the lode in the twenty fathom level west the lode continues very large, and promising, the whole of it being composed of mundic and copper ore, with the same kind of softish blue killas we have in the ten fathom level west, the lode in which is split into two parts by a cross-course; we have just intersected the north part, which consists mostly of quartz, accompanied by stones of rich copper ore; the south part is not without copper, but mundic is the predominating mineral here. The

containing stones of ore.

J. PRINGE. T. PENALUNA.

Dec. 22.—In the 145 fathom level there has been no lode taken down since last report. In the 135 fathom level the lode is two and a half feet wide, one foot of which is rich work. In the 125 fathom level the lode is three feet wide, composed of can and ore. In the 115 fathom level the lode is nine inches wide, producing work of a good quality. In the 105 fathom level the lode is six inches wide, composed of capel and ore. In the winze, rising in the back of the ninety-five fathom level, the lode is nine inches wide, producing some ore, but not rich. In the eighty-five fathom level the lode is small and poor. The fifty-five end is in slidy ground, and unproductive. The incline plane shaft is sunk nine fathoms below the 105 fathom level, and the ground still favourable for sinking. At North Tamar, in the sixty fathom level, north of the shaft, the lode is two feet wide, composed of mundic and capel. In the fifty fathom level the lode is eighteen inches wide, producing some good work. The forty fathom level is suspended for the present, in order to rise a winze for ventilation. At Wheal Hascock, we are still driving north in a disordered piece of ground, but cannot say yet of tracing any regular lode—J. Sprakous.

TRELEIGH CONSOLS MINING COMPANY.

TRELEIGH CONSOLS MINING COMPANY.

December 20.— The ninety, east of Christoe's, was holed on Wedlast; in the ninety, west of ditto, we have not yet seen the lode in t Garden's shaft is four and a half fathoms below the eighty; the groun as usual. In Good Fortune shaft, below the seventy, the lode is ver Garden's shaft is four and a half fathoms below the eighty; the ground me a usual. In Good Fortune shaft, below the seventy, the lode is very labut not much mineral. In the seventy, west of ditto, the lode is three feet w producing stones of ore; in the rise, above the sixty west, we have hole Symons's shaft below the fifty; in Symons's shaft, below the fifty, the will cut down the rise, and timber the shaft, &c.; in the fifty cross-cut, n of ditto, no alteration in the ground, now extended about thirty fithoms-or eight fathoms more to the lode; in the fifty, west of Symons's, the lod about two feet wide, worth about 4t. per fathom. In the thirty-four, we ditto, nothing done, the men employed elsewhere. In the twenty, west of the lode is two and a half feet wide, unproductive; in the adit, west of dut little done since last report for want of air. I begt onform youthat Christantmen will commence cutting a plat, and prepare to sink below the min fathom level; in the aimety end, the men who were driving west from the awinze, will drive the ninety fathom-level, east of sump winze; the west le when holed, is three feet below the one from the sump winze, which is favour, as the water will now all come to Christoe shaft, and shaft also he advantage of this three feet stope to put over a bottom of twenty or m fathoms in length, through a good course of ore. Orea sampled on 10th D —79 tons, produce, bit, 51 do., 104. From the uncertainty of the stand lately, we cannot easily calculate the value of it, but would say, shout 500 The flat rows LEAD MISE.

The flat rod shaft in einking is gone through the nave commenced driving east on the lode at this level; the anda a from two and a half to three tons, and worth over 400 per fathom, we fathom end, driving east of engine-shaft, the lode has taken a lay; we have not been able to follow it exactly in its course, the cen employed in driving south to get it higher in the end; the off this end in the bottoms, produce less ore than last reported, at a ten per fathom; the stopes in the hack look much the same, ne ton per fathom. The end driving east, on the middle lode, looks and a half to three feet wide, producing over one ton per fathom; elsind this send are now dry, from the rise being holed, and working of tributers at 55 per ton; the men are obliged to abandon the behind the western end (twelve fathom level), on account of bad sing so near the sea; the lode discovered up the hill has not been tweek; the tributers have been employed in stoping the ground brough; the stopes look full as well as the shaft, producing ever rathom; the men in the other surface shaft east, have the lode but without much ove—they have just out it; the reason we have king is, the increased feeder of water—we are preparing a lift for it.

BERDFORD UNITED MINING COMPANY.

sensinking is, the increased feeder of water—we are preparing a lift for it—
BEDFORD UNITED BURING COMPANY.

2. 22.—At Wheal Marquis, the new engine-shaft is down to the eighty in level, and we have commenced driving south to cut the lode. The lode is executly fathom level east is two feet wide, and worth 10½ per fathom; in this level west the lode is eighteen inches wide, composed of spar and it. In the fifty-eight fathom level east the lode is two and a shaft feet and worth 10½ per fathom; in the rise in this level no lode has been down. In the forty-seven fathom level west, on the couth lode, the lode intens inches wide, and worth 8½ per fathom. At Ding-Dong, there has no lode taken down in the twenty-four fathom level east in two feet wide, and east of the lode in the thirty-five fathom level east in two feet wide, and good stones of copper ore; in this level west do is two feet wide, producing some saving work. No lode has been down in the twenty-five fathom level west.

J. Printers.

minus mun	the fact. A suppose and	FORMULA	THEFT	Contract of	STATE OF THE PARTY	
ADDE VIE	IMPERIAL	BRAZILIAN	MINING A	SSOCIATI	OW.	
01 6011 '9	600E ROTHER RE-	APPENDING MICHELLAND	25. 38. 401	22.000 300	Blitter Most- P	
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	AT DYNAM STREET	From 1b 6	the Stamps.	DAMEST AND RES	Total raised.	
1840-	Sept. 23 to 30.		7 11 0	A. Carrett	6 10 16 0	š
without the b	rotal from 1st	July to 2d Oct.		Ib	72 9 12 U	
District of the last of the la	trial amoto via	[No lettern	received.]	10000	desire and the	
100 70036301	HILLERY WARRIES &	THE PERSON NAMED OF THE PE	CO OF 2 2 4 2 24	ALEST MARKET POR	CARRIADO BILLI	

ALTER MINING ASSOCIATION. Estimate of Ore produced October, 1845—(Five weeks.)

Mines.	No. of men. Tons	ore. Per cent.	Tons copper
Ralpas	20 9	8 bf	. 5.63
United Mines			
Ryper's			
Mancur's			
Old Mine	Mar an amount of Annal	2	0.14
New lodes	The Paris and Street	2 7	. 0.14
ALLEY WALL		Basedon West at it	SAME OF BEING
Total .c.viscos	44 44 36 48	S SIEGELD	8-95

Mining Report, from 25th October to 10th November, 1845.

Notwithstanding the many disadvantages we had to contend with at the minincoment of last month, and which were alluded to in my last report, as improvement which has taken place in some of the lodes, has enabled us increase our produce for the month by nearly two and a half tons of copper; is increased produce may be attributed principally to.

Raipas, where the lode in the shallow sdit has become more impregnated ith prills and best dredge; the smalls and second dradge, must, consequently, sperimee a corresponding introvensent, and we hope that the returns to the nelting-house, for October and November, will be found to exceed the estitated per centage; if the weather permit, we hope to return 200 tons of ore y the end of this month.

United Mines.—The reserve ground in one of the stopes is now exhausted, if as much of the lode has been excavated as could be done consistently with easily of the mine, and the lives of the workmen; the stope above the cry has again improved, as the above estimate will testify, and which has the quantity been verified by the actual delivery to the smelting-house, consting of twenty-five tons of dreige, and twelve tons smalls, of which the asys have not yet been made, but the former may safely be taken at 6 per cent, in the latter from 24 to 3 per cent. These parcels are independent of the nalls, picking, stuff, and halvans, all of which are prepared for the ore dressing perations in the summer; two additional stopes, with two men in each of them, are also been set in this part of the mine, one appears in the list of settings. November, the other has been set subsequent to the survey day; at Wood-lifts we have set a stope on the back of the lode, where some few tons of good have been produced. All the workings on Ward's old lode may be considered in viring ground, and, without any untoward change, we may reasonably spect a further increase in the expenditure.

Moreor's—The lode has undergone no change since my last report,

continues good, and we do not apprehend any deterioration in the

produce.

Old Mine.—The old stulls are now nearly exhausted, the produce consists principally of smalls, and stamp's stuff, which cannot be returned before the summer, the dredge only amounts to about two tons mouthly, but in a short time we may probably set a stope in a piece of ground that has lately been opened above the adit level, in the western part of the mine. The returns to the smelting-house for October, only amount to about four tons of copper, but as soon as the driving recommences at Raipas and Ryper's, or against the early part of December, we hope to deliver a sufficient quantity of ore, to make fourteen tons of copper more.

S. H. Thomas.

[PROM CORRESPONDENTS.]

AUSTRILL CONSOLS.—The lode intersected in the adit level continues uctive, returning from twenty-five to thirty tons per month, and worth, a sverage, about 6t, per ton, each fathom of ground producing a ton of ore, discovery is considered by all agents who have inspected it likely to be g, and that sufficient ore will be found to enable the company to erect a rial engine without a further call. Too much cannot be said of the extra management and economy which has been pursued in bringing this not be to recent state.

ower Consols.—J. T. Treffry, Esq., has effected an arrangement for a vahe piece of ground situate between, and adjoining, North Fowey Consols,
annexed it to Fowey Consols; an excellent copper lode, four feet wide, is
wn to run through this sett, which it is hoped will be found productive on
g further explored.

news to that mough this set, which it is noped with be found productive dieg further explored.

WHEAL CONCORD.—In consequence of the inefficiency of the water-wheel tely erected, preparations are now actively making for the erection of a power-lal steam-engine, and resuming the workings with greater spirit. The disoveries in Wheel Grace, within a few fathoms of the present engine-shaft, are ditte aufficient to stimulate the company to more active measures—upwards 70000 tons of lead on were returned during the former workings, about aix sears since. A special general meeting of the shareholders in this mine will be eld, at the account-house, on. Thursday, the 8th of January next ensuing, for eneral purposes, and appointing a finance committee in Loudon.

WHEAL GRACE, immediately adjoining Wheal Concord on the west, and ontaining the same lode, has a shaft sunk fifteen fathoms from the surface, and cut the lode three fathoms wide, producing lead ore, more or less, through-ut; from fifteen to twenty tons are on the surface, nearly ready for the market—within the last three days an improvement has taken place, and a new lode as been discovered, but of which little can be said until further developed.

WHEAL CARPENTER, contiguous to the above, has been taken up, and shed-

Where Carpenter, out in which the cash be say into their developed, ing for the lode commenced, which has already been seen in several places for a great length, and present similar appearance as seen in Concord and Grace, which on pursuing in depth, no doubt, will be found equally productive.

DEVON AND COURTIEST CONSOLA.—The great gossan lode is now cut in a pit fifty fathoms further west than previously sunk, composed of a beautiful gossan and a most congenial killas.

AL FORTESCUE.—Within the last few days an improvement has been y the discovery of a very premising branch of ore.

AL ELEXABETH, near Callington.—They are driving south from the enaft to intersect the lode at the ten fathom level, which, it is expected, accomplished by the end of the present month; there being about nine to drive, but the end is very wet, and troublesome for driving. The is clay slate of a most congenial character for lend ore.

IN CALLINGTON.—The alit level is in course of being driven north on it the ground continues of a most encouraging description, especially five fathoms, whilst the end gives some excellent stones of lead; the mg about two feet wide.

WHEAL SALUSBURY MINING COMPANY

A general meeting of the shareholders was held at the London Inn, Liskeard, on the 11th instants—James Workersers, Esq., in the chair—Afr. Robert Taylor (the purser) presented his accounts, which were audited and passed unanimously; from which it appears that the cost for September was 594. 15a.; October, 524. 19a. 7d.—total, 112. 14a. 7d.—By balance of account 25th September last, 914. 5a, 9d.; leaves due to purser, 214. 5a. 10d.—to defray which, and further workings, a call of it per share was made.

From the agent's report, it appears, the lode on which they have been lately sinking a shart's nearly on the aouth boundary of the sett, on which they have sunk about sixteen futhoms below the adit level, drawing the water up in barrels; for several fathoms the water was but little, so that they proceeded without much difficulty. At nine fathoms below the adit they drove a short distance on the lode, and found it to contain some very good ore, and then commenced sinking seven fathoms deepen; in the course of which the water has so increased, as to render it both difficulty and expensive to keep; and as the lode recently cut in Caradion Vala continues the series series and considered very premising it was suggested that is might in all probability be prought on simultaneously with benefit to both parties. It was resolved, "that the lode lately opened on Atwood Down (that is the Caradion Vala lode), be driven on with all proper expedition." This lode was opened on before the meeting, and is in appearance in every respect equal to what it assumes in Caradion Vala—there are several lodes between these two sets (five of which are known). The lode opened on Atwood Down is about half a mile north of that on which they have been sinking. Before the crection of any expensive machinery is has been deemed necessary to explore the lodes, to ascertain if their appearance will fully warrant the same.

BARRISTOWN MINING COMPANY.

BARRISTOWN MINING COMPANY.

BARRISTOWN MINING COMPANY.

A meeting of adventurers was held at the offices of the company, on Monday last, the 22d instant.—CHARLES CHIPPINDALE, Eq., in the chair.—The monthly cost-sheets and captains' report (which we give in another column) were presented, and considered highly satisfactory. In consequence of the purchase of a very superior crushing machine for cash, it was deemed necessary to make a call of 51, per share; and from the present appearances of the mine, it is thought no further call will be required. The returns are about twenty tons per month, and from the want of the crusher there is now nearly 100 tons of silver-lead ore accumulated. From the peculiar quality of the ore, it cannot be rendered marketable, without the aid of the crusher, and which, from its particular construction, is thought admirably adapted for the purpose. The last parcel of ore seld realised 184 per ton.

NORTH FOWEY COMMUS.—A meeting of adventurers is convened for the 7th January, 1846, when every arrangement for effectually working this promising sett will be made, and, from the character of the lodes already discovered, there remains but little doubt of this becoming a standard mine amongsther celebrated neighbours.

her celebrated neighbours.

THE CARADON MINE.—A meeting of adventurers was held at Liskeard, on Thursday, the 18th inst., when a further call of 2t per 256th share was deemed necessary for the further prosecution of the mine.

KIECUDERHOHT MENING CONFANY.—A report of the late meeting of adventurers, held at Liskeard, with that of the financial committee, has come to hand. The length, however, to which they are carried, precludes us from giving them insertion: we will endeavour, however, to give an abstract next week.

WHEAL ROSE CONSOLS.—A meeting of the adventurers in this undertaking is to be held on Tuesday next, for the purpose of transacting the general business of the mine.

TREWAYAB MINE.—The two monthly meeting for Sept. and Oct., which was appointed to be held on the 5th day of January next, is postponed until dionday, March 2d. The new work agreed on at the last meeting is not yet effected, and at present there is but little alteration in the mine.

WHITE DAMP-DR. MURRAY-MR. RYAN.

WHITE DAMP—DR. MURRAY—MR. RYAN.

Srn,—The Staffordshire colliers appear to have puzzled your correspondent
Dr. Murray, when they informed him of the existence of schie damp. He
seems to discredit it; will he believe me, a very young collier, if I inform him
that it is well known among colliers, and is occasioned by unusual heat in the
strata, either above or below the mine; I should, with all respect, ask Dr.
Murray, if there ever was a coal mine in the world, worked on Ryan's method, as first reported upon by him? If there was, and the effects were successful, let the mine be named for the benefit of others.

Lianfoist, Dec. 22.

A Young Collier.

WHEAL WILLIAMS, IN THE PARISH OF CALSTOCK.

WHEAL WILLIAMS, IN THE PARISH OF CALSTOCK.

Sus,—For many months past the mining community has been in a state of excitement, in consequence of the numerous applications for the above sett. About a month since, the Duchy expressed their willingness to grant upon certain conditions, and, accordingly, addressed a letter to a number of the applicants, requesting that a list should be furnished them, containing the names of not less than ten gentlemen, each to be submitted to the council, who would select that list whose respectability would be a guarantee, that the mine would be not only worked in a miner-like manner, but to preclude its being brought into the market for jobbing in shares—at least, so says report. Six of the leading miners, connected with the county, coalesced, so as to secure by that union the certainty of the grant. Imagine, Sir, the surprise of all—excepting the parties concerned—when it was announced that it had been granted to a company, in whose list figures several of the greatest "jobbers" in the county of Corawall. The Duchy, to secure to themselves a large stake in the speculations, imposed the dues of 1-12th, and a certain annual rental from the profits, to be fixed by the bidders themselves. An offer of 39 per cent.—nearly one-third of the profits—obtained the expected prize. I can only account for these absurd and unprecedented terms, from all I can gather from those best acquainted with these matters, by supposing the Duchy officers were bound to accept the highest bidder, and that such an offer was made by the Traro party to sesure the lease, thinking, from the great number of applicants, that the price of shares would run very high. In this, however, I suspect they will be disappointed; for, no one at all acquainted with mining, can look at the transaction otherwise than with digust, and, having a tendency to injure, if not destroy, the mining interests of the county, of which it is too apparent that the lesses can have no very great regard. The great value set on this property, ar

THE ALBTON MINING CASE.—The arbitrator in the case, "Hudgilburn v. Gallegillwell," has made his award as follows:—1. That the Gallegillwell Company are entitled to the veins D and E, and that the Hudgillburn Company are to pay them 1926. In respect thereof. 2. That the Hudgillburn Company are entitled to the fearth Sun vein, and that the Galligillwell Company are to pay 826. In respect of the ore got therefrom. 3. The Hudgillburn Company are to pay their own costs of the Chancery suit, as well as the costs of the Commissioners of Greenwich Hospital. 4. The Gallegillwell Company to pay their own costs of Chancery suit. 5. Each to pay their own costs of reference. 6. The Hudgillburn Company to pay the Gallegillwell Company the sun of 744. 13a, the value of materials set forth in the schedule annexed to the award. When Boscastic Mine.—On Thursday last, the lode was cut at the

Wheal Boscastie Mine.—On Thursday last, the lode was cut at the twenty fathom level, about four feet wide, and presents a very favourable appearance. The lode is composed of beautiful yellow copper, and very strong gossus, with a very fair underlay. Shares are rapidly advancing in price in this locality.—Commall Gazette.

LANFIRMACH MINES.—The working of these mines have been brought to

Lucar Inox-Works—(From a Correspondent).—The seam of black-band irroxesons at blees works, which are new in course of wooding more Cummock, in Ayrahire, is aix feet thick, which were extraordinar—the thickeet black-band hitherto found being only thirty inches.

Inrogarst Luznovymanter in Macamazar—Viscomia Inox Works—If having been found requisite to sink a pit which had formerly been employed in which the property of the prop

MINE ACCIDENTS.

Wheal Maria Mine, Tavistock.—A miner, named Butterel, was killed by a

Mine Accidents.

Wheal Maria Mine, Tavistock.—A miner, named Butterel, was killed by a fall of carth.

Derby.—Several men were shockingly mutilated by an explosion of fire damp in one of Mr. E. M. Munday's pits, on Saturday last.

Farnworth, near Boiton.—J. Aldred was killed in Mr. His ton's colliery.

Wellington Pit, Whitehaven.—As D. Hinde was ascending the shaft, the bucket came in contact with the air conductor, and he was thrown out, and killed. Littleous Colliery. Gatesheed.—T. Maudlin and E. Cresby were grushed by a fall of stone in this colliery.

Gassop Colliery.—J. E. Grey was killed in Capt. Widdrington's plt.

Dudley.—J. Provence (eleven years old) was killed in a pit as Dudley Fort.

West Bromwich.—J. Hayes was killed by a fall of coal in Mr. Pavi's colliery.

Devon Iron. Works.—A smith, named Bain, foll down a shaft, and was killed. Newarthil Colliery, Glasgone.—W. Paterson and J. Smart were killed by an explosion at the No. 2 pit, the property of Mr. Watson.

Bradley.—J. Walton was killed in Mr. Wilkinson's colliery.

Brockmoor.—J. Dunn was killed in Mr. Wilkinson's Colliery.

Brockmoor.—J. Unun was killed by a fall of coal in Mr. J. W. Johnson's pit. Kingawinford.—W. Hickman was killed in Mr. James Boydell's pit.

Biston.—J. Wilkinson was killed in Mr. Sames Boydell's pit.

Biston.—J. Wilkinson was killed in Mr. Sames Boydell's pit.

Biston.—J. Wilkinson was killed at Messza. Baldwin's blast furnacas.

Burslen.—As J. Sawyer was working in a colliery, at Sneyd Green, his naked candle caused an explosion, by which he was killed, and J. Sergeant was dreadfully burned.

Victoria Colliery, near Nitshill, Glasgon.—An explosion took place in this pit, about six weeks since, which has caused a complete stoppage of the workings.—In consequence of the coal igniting when this explosion occurred, the pit was closed up as nearly as possible air-tight, and allowed to remain so for nearly six weeks, in expectation that by this means the fire would be effectually extinguished. We regret to be informed, however,

The late Steam-Boiler Explosion at Willeshall.—On Thursday, an inque was held before T. M. Phillips, Esq., coroner, at the Saracar's Head, Willeshall, on the body of Edward Wood, engineer, who was killed (as stated in la Mining Journal), by the bursting of a steam-boiler, at Mesers. Thorneyers and Co's colliers. Williams! hall, on the body of Edward Wood, engineer, who was killed (as state Mining Journal), by the bursting of a steam-boiler, at Messrs. Thor and Co.'s colliery, Willenhall. J. Wood, bruther to the deceased, said an engineer, and employed at the works: J. Reece, the engineman, ting up the steam, and he was at the gears: as soon as the steam was both the boilers, the engine began to act, and then they blew the vesse engine clear; the injection cack was opened for the engine to take was the throttle valve opened. The engine was put in motion, and mad stroke, and in consequence of its not having made a full stroke, Mr. T. croft directed him to reverse the gears; he did so, and the explosic place. The deceased, who was standing near, was knocked down by the of the stack falling upon him, dreadfully scalded, and killed upon the his opinion, the occurrence was attributable to the want of a halance counter wheel and a fly wheel—the omissions sore an experiment! He apprehend any accident, as he would have avoided the danger. The was a good one; the boiler would bear a pressure of 14 lbs. to the stather were only about 8 lbs. at the time of the explosion. J. Johns gineer, said the boiler and engine were of good materials, and in word dev. In his opinion, the explosion took place from the want of a bid the counter beam, and the want of a fly-wheel had no connection w Verdict, "seedental death."—Wolverhampton Chronicle.

Original Correspondence.

NEW PROCESS OF SEPARATING SILVER FROM COPPER ORES. Siz,—Among the various chemical discoveries of the age, one of the most important, both in a scientific and commercial point of view, appears altogether to have escaped public notice. As a subject connected with mining, I beg to bring it under your consideration.

altogether to have escaped public notice. As a subject connected with mining, I beg to bring it under your consideration.

About three years since, a method of separating silver from copper ores by a very simple process was discovered at Haxtadt by Mr. Zervogle. It was subsequently applied to silver ores with a result equally satisfactory. The process has been patented both in this country and in Mexico, and is therefore no longer a secret. It consists in the conversion of the silver, by roasting, into chlorides or sulphates; the first of which are soluble in a saturated solution of salt and water; and the latter by hot water alone, depending upon the nature of the ores to be reduced. The Mexican patent has been taken out by the Real del Monte and Bolanos Companies jointly: and a gentleman, formerly in their service, and who has acquired in Germany a complete knowledge of the process, went out to Mexico, by the December mail, to carry it into operation in the haciendas of the Real del Monte Company.

It seems somewhat strange that a discovery, which will supersede the old method of reduction by amalgamation, upon which no improvement has been made for upwards of 300 years, and which has been an object of research among many distinguished chemists of the day, should have excepted altogether the attention of the public.

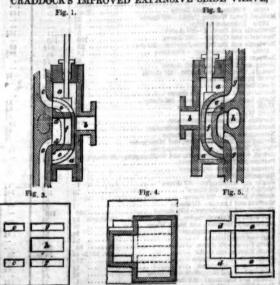
By this method, a class of ores of inferior ley may be reduced; and there are thousands of tons now to be found in Mexico, on surface, and which have been hitherto considered as waste, on account of the expense of reduction; but from which a profit may be now made by this new method. If, as I believe, no doubt exists of its success, it is not easy to predict the important changes which must take place, from the increase of the mineral wealth of Mexico. There are in that country many hundred mines hitherto not worked, because of the only known means of reducing an inferior class of ores, which is productive of loss—both on account of the cost of quicksilver and the deficiency in the quantity of si

APPLICATION OF ELECTRO-MAGNETISM TO RAILWAY PROPULSION.

Siz,—If the following scheme be not new, those who have laid it aside have seen more fatal objections to its practicability than I do. Some time ago experiments were tried, with regard to the application of electro magnetism to propulsion: on railways; the result of these were highly satisfactory in establishing the efficiency of the mechanical action of the machines, and the usual railway speed was proved to be maintainable; but the grand objections were the weight of the galvanic batteries requisite for sufficient energy,—their expense, and the fact that this mode of propulsion, as well as the steam locomotive, required the motive power to be carried with the load moved. Now, suppose we have a railway ten miles long, and that at one terminus there is placed an enormous stationary galvanic battery; might we not make the rails themselves the conducting lines of the battery? and the whoels being so arranged, as to break the connexion where required, a rotating magnet might revolve by the electro-magnetism thus consumediated. The first question which is immediately suggested is, how much of the galvanic current would escape by the earth, across the rails? Now, surely, if half the trouble that has been expended on the valves of the exhausted tubes of atmospheric railways, were to be employed here, we should soon have some method of cheap insulation invented. Imbedding in wood prevents a great deal of this loss, and this difficulty seems to me the only one. Of course the axles of the wheels of the train must be of some non-conducting substance; they might, like the wheel forth soon the Electric Railway."

Trinity Callege, Cambridge, Dec. 11,

CRADDOCK'S IMPROVED EXPANSIVE SLIDE VALVE,



Description of the Figures.—Fig. 1 is a vertical section of the slide valve and valve chest through the steam passages of the high pressure cylinder; and fig. 2, a section of the valve through the passage of the expansive eylinder. Fig. 3, a view of the steam and eduction passages in the valve seat. Fig. 4, a vertical section of the valve upon the line y, h; and fig. 5 is a view of the face of the valve; a, is the valve chest, which is supplied with steam from the boiler by the neck b; c, c, are the passages by which the steam passes to and from the upper and under slides of the high pressure piston of d; e, the slide valve—d being the high pressure portion of the slide, and e the expansive portion; f, an aperture by which the steam, on leaving the high pressure cylinder enters the expansive part of the slide g, g, the passages leading to the upper and under sides of the piston in the expansive cylinder; and h the eduction passage leading from the expansive cylinder to the condenser. Thus, it will be seen that the expansive or condensing cylinder at the same end as the high pressure steam from the eduction side of the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the boiler enters the high pressure cylinder, and the steam from the condenser.

Thus, the two pistons are being supplied simultaneously at the same ends, with steam of different pressures—and this, be it remembered, composed of the same water, and consequently, the same heat: if we take the first, in-

steam from the boiler enters the mgn present synthesis of the passage from the eduction side of the expansive piston passes through the passage finto the condenser.

Thus, the two pistons are being supplied simultaneously at the same ends, with steam of different pressures—and this, be it remembered, composed of the same water, and, consequently, the same heat: if we take the first, including the atmospheric pressure at 115 lbs, per square inch, and the second at an average gross pressure of 18 lbs, per square inch, the pistons being respectively ten and twenty-four inches diameter, and the speed of each 220 feet per minute, allowing 5 lbs, above the atmosphere, as the average resistance on the exhaust side of the 10-inch piston, we have then for it, 1,640,540 lbs, lifted one foot high per minute—or very nearly 50-horse power; and for the low pressure, or 24-inch, cylinder, after allowing for resisting medium in the condenser 3 lbs, and taking its average gross pressure at 18 lbs, per square inch, we have a force on its piston equal to 1,491,600 lbs, lifted one foot high per minute, on 45-horse power. Here, than, we have a gross power equal to 95-horse, very nearly, each piston hath a stroke of two feet. Now, it is clear here, that to use steam at only 18 lbs, would he a dead loss of 50-horse power in 94 lbs. Again, if we inquire into the number of pounds of steam and coal per hour required to produce this power, we shall find it as follows:—With steam at 115 lbs, as above, it requires 1736 lbs, steam per hour, or 217 lbs, coal. Without expansion, at 18 lbs., it requires 4030 ditto, or 504 ditto. At 40 lbs., without condensation or expansion, it requires 5270 ditto or 659 ditto.

In the foregoing calculations, 8 lbs. of coal is the quantity taken as equal to convert 52 lbs. of water into stess. Again, by way of illustration, and to take the most unflavourable view—we will suppose that to use steam at 115 lbs. would produce a saving of only one-half on the present system of marine engines, we will take 1200-house as the gross power of the engines in, we will suppose, the Great Britain, we have then a saving in a voyage to and fro between Liverpool and New York, supposing it to occapy 672 hours, equal to 328 tons of coal—supposing this to cost 10s. per ton, we have here a saving of 4141; but I need scarcely point out that the saving would not stop here, as there would be \$28 tons less uncless freight. Nor does it stop here, for the machinery would be reduced at least one-fourth in bulk and weight; it is no exaggeration, if we take this as equal to another 4141, or a clear gain equal to 8281 in each of such voyages; supposing, therefore, eight voyages in the year, the saving would amount to 6244 annually; if this be the saving which would be realised in one vessel, what would be the saving on the whole of our marine steam-engines, to say nothing of locomotives and stationary engines, in Great Britain, to gether with the employment of the steam engine throughout the world? In this representation, all that is unaterial is based upon stubborn facts, which is long as the material laws continue what they are, will stand forth an unimpeachable and impartial witness. Are advantages as great as these to be suppressed, because some, who, from ignorance or other motives, choose to frighten the public by representations of danger from the use of steam at such pressures? If the knowledge we already possess be insufficient to dispet this groundless objection, Iwould propose the following simple and decisive experiment, which, if any amount of evidence could suffice to convince these men it would do so. Lettus take two boilers, the one on the usual marine principle, and the other attobutar. In such I pr

METALLURGIC TREATMENT OF GOLD AND SILVER ORES IN HUNGARY AND TRANSYLVANIA.

ORES.—The ores that are treated in the smelting-houses or furnace for gold and silver can be divided into three very distinct classes :-- 1. The auro-argentiferous ores, which comprise all the ores, whatever may be their nature, of which the precious metals constitute their principal value. They may contain copper and lead, but only as may be said by accident.—2. Pyritous ores are employed as sulphurets in mentilurgic treatment, and are, therefore, appreciated according to the quantity of master that they can yield, which ought to be at the rate of about 48 per cent, at least, for them to be received at the furnace. They are chiefly compose—3. Lead ores, consisting of argentiferous galenas, which ought to contain at least 30 per cent, of lead to be received at the furnaces, or 30 per cont. only if they contain besides one lost at least of gold or silver. The ores of the first class contain the following minerals:—Maitre gold, native silver, sulphurous silver, lake silver, red silver, and tellurares of gold and silver. (The prince of Transylvania distinguish seven descriptions of telluriferous oree—vix, native fullurinum (gedieges tellur), the yellow, the graphic, the white, the grey, the silver, and the leaf; but, in comparing the analyses that have been made up to the present, it appears evident that the number of specimens mineralogically examined, as well accurate a many sort that have been made up to the present, it appears vident that the number of specimens mineralogically examined, as well accurate a many sort that have been made up to the present, it appears vident that the number of specimes mineralogically examined, as well accurate a many sort of the service of value. They may contain copper and lead, but only as may be said by accident.—2. Pyritous ores are employed as sulphurets in metallurgic treatment, and are, therefore, appreciated according to the quantity of matter that they can yield, which ought to be at the rate of about 48 per

extract the ore and carry it; the women and children supply the

lextract the ore and entry li; the women and children supply the crought and weath the selfect. Sometimes they from period meaning the content of the conten

HALLY'S PATENT LIFTING JACK .- This is a most important improve ent on the old rack jack for lifting great weights, supporting beams, &c., in buildings undergoing alteration, and, from its simplicity, power, and economy in first cost, must come into very general use, if not en-tirely supersede the old and rude rack jack. Instead of a rack with ratchet tirely supersede the old and rude rack jack. Instead of a rack with ratchet wheel and pinion, in the one to which our notice has been directed, a powerful screw runs perpendicularly through the frame, having a claw at both top and bottom, so as either to raise the weight from above, or lift from below; this screw is acted upon by a pinion taking into an endless screw, on the axis of the handles outside the machine, by which means a most enormous power is obtained with comparatively little labour: the handle may, at any time, be left without a possibility of flying back, and is only half the weight of an ordinary jack of equal power, one capable of lifting five tons can be borne with ease by one man. All its working parts are most accurately finished, being engine cut, and it combines utility, safety, durability, and neatness at a cost not exceeding that of the old and unasia jack. It is manufactured solely by Messrs. Galloway, Knot Mill Iron-Works, Manchester.

IMPROVEMENTS IN STEAM-SHIP PROPULSION .- We have alluded, in various Numbers of the Mining Journal, to the benefits likely to be obtained by the general introduction of the convex paddle-float, invented by Mr. Smart, for the propulsion of steam-ships, not only in our merchant service, but particularly in the Royal Navv, and which we are glad to find has been duly appreciated in a high quarter, as we are given to understand that it is intended to introduce the convex propeller on board several of her Majesty's steamers as an experiment, and, there is no doubt, from the success we have reason to anticipate will follow, it will be universally adopted when its great advantages are known to the maritime interest. We insert with pleasure a letter from Samuel Bromhead, Esq., on the comparative speed of the convex and common float:—

The deliberations of the Councils General of Agriculture, Communous, and Majorith of the Councils General of Agriculture, Communous, and Majorith of the Councils of the Councils of General G

with a tax to the beseft of an industry aljoint, however, the arguments of the forgen already cited, and may be resumed thus,
foreigner, when we can supply them; do
obsection which has produced such good renat will cause fresh progress—or at least, if
manded. Such is an abstract, or rather a
being conitted, of the document on iron laid
to Minister of Commerce. It leads palpably
m is imperatively demanded. The Minister
he reduction; but, if he had been disposed,

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 904
3 per Cent. Reduced Ann., 95‡ 5 ‡ 4
Consals for Account, 94‡ 5 5 8 4‡
Exchequer Bills, 25 5 ps.
Belgian, 4‡ per Cents, 95
Danich, 3 per Cents, 87‡
Dutch, 2‡ per Cents, —
Perfuguese, 4 per Cents, 88‡ 69

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expense incurred expense incurre an extraordinal Darwen, and Bo Blackburn, for t Darwen, and Bo Blackburn, for ti ment which has the committee of Company, for les corporation, the Among those pre-resident in Hull, procure, if possib until after the op of the company, had been approve shareholders. A moved that the a moved that the for postponemen the chairman, w an, who, in

the chairman, who, in acknowledging it, observed, proprietors being willing to lease the line, the Live pany would have the first claim upon them. The attended.—Meetings have been held at Daventry the London and Birmingham Extension.

Notice has been sent to the shareholders of the Wand Southampton, and Swindon and Birmingham failure in the payment of the deposits having rend tampt the completion of this project, the directors hing the entire amount of the subscription.—Lonside made in the neighbourhood of the line now construct the contractors are practising the truck system to a crying evil, alike disgraceful to those who enforce it bourer: a strike, under such circumstances, would braiseworthy; and in the present abundant state or who left would immediately find employment and a endeavour to banish this un-English practice from tractors ought to be the last to adopt such mean me MESSER, LAMOND'S SALES—TUERDAY.—Buckingh

MESSES. LANOND'S SALES—TUESDAY.—Buckinghamshire (2l. 2s. pd.), 2l. 2s.;
Tring, Reading, and Basingstoke (3l. 5s.), 2l. 18s.; Boston, Newark, and Sheffield (2l. 12s. 6d.), 2l. 2s.; Northampton, Banbury, and Cheltenham (2l.), 2l. 2s. 6d.; London and Blackwall Extension (3l.), 3l.; South Staffordshire (2l. 10s.), 3l.; Eastern Union Extension to Cambridge and Ely (2l. 10s.), 2l. 2s.; Eastern Union Extension to Norwich (2l. 10s.), 2l. 4s.; Ipswich and Bury St. Edmunds (4l.), 4l.; North Staffordshire, Churnet, and Potteries (2l. 2s.), 5l. 1s.; Leicester and Birmingham (1l. 2s.), 19s. 6d.; Great Southern and Western of Ireland (15l.), 18l. 16s.; Trent Valley, Midland, and Grand Junction (2l. 2s.), 2l. 2s.; Rhymney Iron Company (5d.), 30l.
FEIDAY.—Goole and Doncaster (2l. 2s. pd.), 2l. 5s.; Northampton, Banbury, and Cheltenham (2l.), 2l. 11s.; Great Luxemburg (4l.), 2l. 12s.; Leeds and Carlisle (2l. 12s. 6d.), 2l. 1s.; North Staffordshire, Churnet, and Potteries (2l. 2s.), 6l. 7s. 6d.; Great Paris and Lyone (2l.), 2l. 8s. 6d.; London and York Extension (2l. 10s.), 2l. 19s. 6d.; Buckinghamshire (2l. 2s.), 2l. 6d.; Northampton, Banbury, and Cheltenham (2l.), 2l. 8s.; North Kent (2l. 10s.), 2l. 18s.; Liverpool, Ormskirk, and Preston (2l. 10s.), 3l. 18s.; Universal Salvage Company (5l.), 11l. 10s.

Rest (2l. 10s.), 2l. 18s.; East Indian (5s.), 1l. 5s.; Liverpool, Ormskirk, and Preston (2l. 10s.), 3l. 13s.; Universal Salvage Company (5l.), 1ll. 10s.

THE SHEFFIELD AND MANCHESTER TUNNEL.

The opening of this grand tunnel, on the Sheffield and Manchester Railway line, took place on Monday last, whereby the two points were connected throughout; it has cost 200,000l, and has taken six years in being accomplished, piercing through the chain of hills between Lancashire and Yorkshire. The tunnel is a chef d'eseve, and may be regarded as one of the greatest specimens of engineering skill, is 5,300 yards, or three miles and twenty yards, in length, being exactly midway between the terminl of the line. It is fifteen feet wide, and eighteen feet sixteen inches high. It is adapted only for a single line of rails, and it will be worked by an engine which will be entirely confined to taking trains through each way, so that no collision can by any possibility take place. In addition to the security thereby induced, there will be an electric telegraph, which will convey signals through the tunnel in an almost incredibly abort space of time. The level of the sea at low water. The depth of the lowest of the five ahafts is 609 feet. More than half the work is through the solid rock, of what is termed by geologists the millstone grit of the lower bed of the coal formation, and the remainder passes through the slate and coal formations, and is entirely lined with soil and substantial masonry. The works were commenced in the early part of the year 1840, so that the tunnel has been nearly six years in its construction.

On Saturday, Major-General Pasley, accompanied by Mr. Locke, the engineer-in chief, Mr. Jee, the scting engineer, and a number of the directors, made the special trip of inspection, when the general declared the tunnel to be one of the best works of the kind he had seen. He also went over the Ashton brauch, and examined particularly the viaduct, the falling of which some time ago occasioned such serious loss of l

RAILWAY SH	ARRICATIONAL STREET	
RAIGWAYA	Paid Glosing p	Chaing p
Abordoon a service ser	Anti-A	of territors
Armagh, Coleraine, and Portrush—367 shaves	The second secon	DE OFFICE AND
Airmingham and Gioncester-1000 shares	100 101	1954
Ditto New issue, 71 dis.—25f shares	174 . 31	STATE OF THE PARTY OF
Nirmingham and Oxford Junction - 201 shares	24	
kristel and Exeter-100 shares v	70 78	60
Ditto New-33# shares	6	E REPORT OF
bristol and Gioncoster-50f per share		Martine No.
aledonian	The second secon	1 144
Ditto Extension 50f shares	24 24	S. Rosell, C. C.
ambridge and Lincoln—25/ shares		or bearing a second
Ditto New 255 shares	16 26	all trees. 2400
	2.44444444	CAN THE R. R.
hester and Holyhead 50f shares		16 e
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lydesdale Junction	5 12	53 64mb 9 -81
ork and Killarney—80/ shares ork and Waterford—25/. shares	300	DE STREET DE
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	5	pathanes or
ublin and Belfast Junction—50/ shares ublin, Belfast, and Coleraine—50/ shares	14(31) 758(2) 444 444 442	in University
ublin and Galway 50% shares	200	to aduptive or
undalk and Enniskillen—50/ shares	91	OF STREET STREET
astern Counties 25/ shares	14/16/ 194	The state of
Cast Dereham and Norwich	429	2 20 20 218
ast Lincolnshire	The state of the state of the state of	1 1000
dinburgh and Glasgow-50f shares	50 073	1
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ding their	Bank Stock, 204 Rumian, 5 per Cents., 113	Bristol and Gloucester-50f per share
to predict	Bank Stock, 204 3 per Cont. Reduced Ann., 204 5 5 4 Consals for Account, 944 5 5 6 64 E zohequer Bills, 25 ppu, Belgian, 4 per Cents., 95 Dunich, 3 per Cents., 95 Dunich, 3 per Cents., 87 Colembia, 6 per Cents., —	Caledonian -50f per share 8 Ditto Extension -50f shares 2 Cambridge and Lincoin -20f shares 1 Ditto New -25f shares 1
re wrong	Consults for Account, 941 5 8 44 ditto, 8 per Cents., 404	Cambridge and Lincoln 95/ shares
regarding	Exchequer Bills, 26 3 pm. Brazil, 5 per Cents., -	Ditto New-258 shares
nderstand	Belgian, 44 per Cuntu., 96 Chili, 3 per Centu., 53	Chelmsford and Bury 11
n the one	Dunish, 2 per Cents., 81) Calembia, 6 per Cents., — Dutch, 21 per Cents., — Mexican, 5 per Cents., 314	Chelmsford and Bury
30 CH 10 S	Pertuguicoe, 4 per Centis., 89) 60 Peru, 6 per Centa., 49 1	Chichester and Brighton
ree for the	and the party of the property of the party o	Clydendale Junction 5 Cork and Killarney—80/ shares 2 Cork and Waterford—25/. shares 1
e question	THE SHARE MARKET.	Cork and Waterford 25/ shares
es to that	MINER.—In reference to mining affairs, we can, on the present occasion, do	Coventry, Nuneaton, Birmingham, and Leicester—25f sh 1 Cornwall—50f shares
Il give an	little more than call the attention of our renders, to some observations and sta-	Cornwall—50f shares 3
t, as they	tistics in another part of our present number; the interregnum (if we may so	Derby, Utioxeter, and Stafford 24
ila	term it) of Christmas-day, has caused a blank week in the share market ge-	Direct Northern—50f shares 2
ie "effec-	nerally, and mining property has of course borne its share of the quietude; as	Direct Manchester (Remington's)—20f shares
s, with a	far, however, as business has been done, there is no cause for complaint, and	Dublin and Belfast Junction-50/ shares
tounage.	there is every appearance of increased activity in this description of investment.	Dublin and Belfast Junction—50/ shares
ion of 15	RAILWAYS. In consequence of the return to power of Sir Robert Peel, and	Dublin and Galway-50/ shares
dimbu-	that a dissolution of Parliament will not take place, the share, as well as the	Dublin and Galway - Oo! shares 4 Dundaik and Emiskillen Oo! shares 2 Eastern Counties - 20; shares 14/16 East Dercham and Norwich 1
rouid ap-	money, markets have improved since Monday, and a material change for the	Past Developmend Normales
It is cer-	better may be looked forward to as soon as Parliament assembles. This being	
r, a great	Christmas week very few transactions have been entered into, but the market.	Edinburgh and Glasgow—50/ shares
igh for a	on the whole, has been firm. Good paying lines have improved. London and Birmingham stock is quoted 221 to 222; South Western 75 to 76; Brighton 64	Edinburgii and Northern-26/ shares
ment, "it	Birmingham stock is quoted 221 to 222; South Western 75 to 76; Brighton 64	Edinburgh and Perth
ty nearly	to 65; Great Western 80 to 88 prem.	Exeter, Yeovil, and Dorchester—50f shares
ough the	RAILWAY MEETINGS On Monday last a meeting of the Launceston and	Goole and Doneaster—201 shares
en years,	South Devon Railway Company was held at the White Hart Inn, Launceston,	Grand Junction-100/shares.
Frunch	for the purpose of considering the propriety of altering the old route by way of	Ditto shares—50f shares
1,256,098	Milton Abbott to Lyndford, there to join with the North Devon line, and thus	Ditto shares - 25/. shares
nerchant	unite the Cornwall and the North Devon lines together-Mr. Thomas John	Ditto 40/Lehares, Liverpool to Manchester 4
aind that	Phillips, of Landw, the chairman of the committee, presided, and after a few	Great Grimshy and Sheffeld 500 shares
in 1827	observations of parties interested in the line, he put the following resolu-	Grand Union (Nottingham and Lynn)
as, whilst	tions to the meeting seriation, which were carried unanimously-viz.: "That	Ditto Extension—50/. shares
er, it ap-	the proposed deviation be adepted. That the capital of 300,000%, required for	Great North of England-100f shares
387 tons	the line now proposed, be raised in 12,000 shares of 25% each, in the following	Ditto New-40f, shares
2,158,603	manner: - The sum of 200,000% to be contributed by the North Devon and the	Great North of Scotland 28 Great North of Scotland 28 Great Western - 100f shares 30 Ditto Shares - 30 Shares - 30 Ditto Fifths - 300 shares 20 Guiddreck Parnhason, and Portsmouth - 500, shares 24 Guiddreck Parnhason, and Portsmouth - 500, shares 24 Guiddreck Parnhason, and Portsmouth - 500, shares 24 Guiddreck Guiddreck Parnhason, and Portsmouth - 500, shares 24 Guiddreck Guiddreck Parnhason, and Portsmouth - 500, shares 24 Guiddreck
ne of the	general shareholders, the latter not to exceed 100,000%; and the remaining	Ditto & shares-507 shares
e princi-	100,000% to be contributed by the South Devon, if they shall think fit to do	Ditto Fifths-20/ shares 20
on,&c.);	so, otherwise that amount to be added to the contribution of the South Devon.	Guildford, Farnham, and Portumouth-50% shares 2
colonies;	That the portion of the capital to be contributed by the general shareholders	Harwich 20f shares
va. It is	be raised, by allowing each holder of a 501. share to take one share of 251. at	Hull and Selby Sel shares
taken by	par. That to make up the deposit of 10 per cent. required by the new Stand-	Hull and Selby—Ser shares
not ad-	ing Orders of Parliament, a call of 5 per cent. be made on the old capital, on	Irish North Midland
for that	which 5 per cent, has been already paid, and a deposit of 10 per cent, taken on	Kendal and Windermere—25/ shares
n, either	the additional subscriptions. That the accounts be prepared of the expendi-	Lancaster and Carlislo-50f shares
estion;"	ture of the company, in respect of the bill, up to the time of abandoning the	Leeds and Bradford—50/ shares
artisans,	same. Any shareholder not willing to retain an interest in the undertaking may	Leicester and Birmingham-20f shares 224
ling, are	receive back the amount of his deposit, subject to a rateable deduction for the	Lecic and Braining Junction 12 Leicester and Birmingham—20/ shares 22 s Leicester and Bedford -20/ shares 22 s
ers, last	expense incurred." The meeting was very fully attended.—On the same day	Leicoster and Tumworth—90f shares 42s Liverpool and Leeds Direct—50f shares 2g Liverpool, Manchester, and Newcastle Junction 1f London and Birmingham. stock.
sink, to	an extraordinary general meeting of the shareholders of the Blackburn,	Liverpool Manchester and Nesseatle Investor
th of the	Darwen, and Bolton Railway Company was held at the company's offices, at	London and Birmingham
substi-	Blackburn, for the purpose of taking into consideration a conditional arrange-	London and Birmingham Extension—25f shares 1#
at India	ment which has been entered into between the directors of this company and	London and Risckwall
neans to	the committee of the Liverpool, Manchester, and Newcastle Junction Railway	London and Brighton
or wood.	Company, for leasing to them in perpuity, in case they obtain their Act of In-	London and Croydon
Every-	corporation, the Blackburn, Darwen, and Bolton Railway, upon certain terms.	Loudon and South WesternAv. 411 6s 10d
ns to be	Among those present, was a deputation of two gentlemen from the proprietors	London and York-50/ shares 24
ccorded	resident in Hull, who had been instructed at a meeting, on the 18th inst., to	London and York—507 shares
he other	procure, if possible, a postponement of the consideration of the amalgamation,	Loudon, Warwick, and Kidderminster-60 shares 2
cation of	until after the opening of this line. William Henry Hornby, Esq., chairman of the company, presided. He said, the terms of the proposed amalgamation	London, Salisbury, and Yeovil 50f shares
	had been approved of but the directors of the proposed amaigamation	Londonderry and Enniskillen 507 shares
ess, and	had been approved of by the directors, and they were now submitted to the	London, Warvick, and Kulderminster – Od shares 24 London, Salisbury, and Yeovil – 80f shares 24 London, Salisbury, and Yeovil – 80f shares 24 Londonderry and Coleraine – 50f shares 24 Londonderry and Enniskillen – Of shares 24 Londonderry and Enniskillen – Of shares 36 Lyma and Edy – 234, shares 5
ell as to	shareholders. After being read, Mr. Riggall, one of the deputation from Hull,	Lynn and Derenam-25 theres
lustries;	moved that the question be adjourned sine die. The chairman put the motion	Manchester and Leeds-100/ shares
ald have	for postponement, and it was carried unanimously. After a vote of thanks to the chairman, who, in acknowledging it, observed, that in the event of the	Manchester and Birmingham—40f shares
st. Be-	proprietors being willing to lease the line, the Liverpool and Newcastle Com-	Ditto 4 shares—10f shares
are are	brobustors some winning to sense the must the Diverpoor and Newcastle Com-	the state of the s

ould have the first claim upon them. The meeting was numerously d.—Meetings have been held at Daventry and Southam, in favour of	3
d Meetings have been held at Daventry and Southam, in favour of	1
den and Birmingham Extension.	1
e has been sent to the shareholders of the West Midland, Manchester,	
thampton, and Swindon and Birmingham Junction, stating that the	1
n the payment of the deposits having rendered it inexpedient to at-	7
n the payment of the deposits having rendered it inexpedient to at- he completion of this project, the directors have resolved upon return-	2
entire amount of the subscription.—Considerable complaints are being	*
the neighbourhood of the line now constructing to Gainsborough, that	N
ractors are practising the truck apatem to a great extent. This is a	N
wil, alike disgraceful to those who enforce it, and injurious to the la- a strike, under such circumstances, would be not only justifiable, but orthy; and in the present abundant state of the labour market, men	N
a strike, under such circumstances, would be not only justifiable, but	N
orthy; and in the present abundant state of the labour market, men	N
would immediately find employment and supporters, who would thus	'n
ur to banish this un-English practice from our land. Railway con-	7

Literation will be with - 200 minters
Newcastle and Carlisle-100f shares
Newcastle and Darlington Junction-25/ shares 25
Ditto New (Brandling)-25/ shares
Newport and Abergavenny 24
Newry and Enniskillen-50f, shares 2
Newark, Sheffield, and Boston-25/ shares 24
North British-25/shares
North Deven
Northern and Eastern-591 shares
North Kent and Direct Dover-50/ shares 24
North Staffordshire-20/ shares 42 s
North Wales25/ shares
Norwich and Brandon-20/ shares
Northampton, Banbury, and Cheltenham 2
Nottingham and Boston - 20f shares 1f
Nottingham, Erewash Valley, and Manchester 1
Oxford, Worcester, and Wolverhampton 124
Oxford, Gosport, Portsmouth, and Southampton-20/shares 42 s
Portsmouth Direct -50/ shares 24
Preston and Wyre-50f shares
Richmond-20/ shares 5
Rugby and Huntingdon-20/ shares 1
Scottish Central—25/ shares'
Scottish Midland-25/ shares
Sheffleid and Lincoln-25/ shares
Sheffield and Manchester-100/ shares
Shrewsbury, Wolverhampton, Dudley, & Birm 50/ shares 24
Shrewabury, Hereford, and North Wales 21
Shrewsbury and Birmingham
Somersetshire Midland 24
South Down 50/ shares 90

Birmingham and Derby ... Great Western (Irish)—50/ t and Barries in the Bigo

	Staffordshire and Shropshire 80f shares
3	Staines and Richmond-201 shares
23	
4	Trent Valley-201 shares
и	Trent Valley and Holyhead Junction - 20/ shares
į	Warwick and Cheltenham-201 shares
H	Waterford and Kilkenny-20%, shares
э	Welsh Midland
7	
4	Wexford and Carlow
4	Wilts, Somerset, and Weymouth-50/ shares
1	Worcester, Shrewsbury, and Crewe Union
1	Yarmouth and Norwich-201, shares
ı	
	York and Carlisle
1	York and North Midland-50f shares
1	Ditto Scarborough Branch-25f shares
1	Ditto Selby-50/ shares
ł	Ditto Extension-25i shares
1	LATED Extension Tot snares
1	New tracks are not considered to a fundamental for the property of the
1	
1	POREIGN RAILWAYS.
1	Boulogne and Amiens-20f shares
1	somogne and Amiens 200 shares
а	Bordeaux and Toulouse and Cette (Mackensie)-20/ shares
т	Bordeaux, Toulouse, and Cette (Fanaleta) 201, shares

South Devon-

Sonlogne and Amiens 20f shares 8	research .
fordeaux and Toulouse and Cette (Mackensie) - 20/ shares 2	121-6-5
fordeaux, Toulouse, and Cette (Espalets)-20/. shares 2	02:972
entral of Spain-20/ shares 2	2400.00
endre Valley-20/ shares 2	1.65300
Dijon and Mulhouse 201 shares	all recover
Outch Rhenish-201 shares 5	Section 2
ast Indian	Section 1
reat Northern of France (constituted) 4	10
west Paris and Lyons 90/ shaves	10
reat Paris and Lyons—20/ shares	2000
amaica North Midland	03.93
ersey	Agolula)
ouvaine and Jemappe—20/ shares	Sauce of
	B178.72.2
yons and Avignon—201 shares 2	Fire S
uxembourg 2	25(10)(2)
amur and Liege 20% shares 4	
ricans and Vierson - 20/ shares 10	15
rleans and Bordeaux—201 shares	9
ver Yssel-20/ 16s 8d shares	100.2
aris and Lyons (Lafite)—20 shares 2	24
arls and Lyons (Ganneron's)—20/ shares 2	CO. 10
aris and Lyons (Calon's)—29/ shares 2	2
aris and Strasbourg (Ganneron's)-201. chares 2	CHICAL STREET
Ditto (Compe de l'Est) 2	1
Ditto (Aymard's) 21	2
aris and St. Quentin-90/ per share	3
sris and Orleans-20/ shares 20	46
aris and Rouen-20/ shares 20	37
oyai North of Spain-20/ shares 2	1000
ouen and Havre-20/ shares	254
mbre and Meuse-20/shares 6	7757 1617
rasburg and Basic-14! shares	10
ours and Nantes (Mackenzie) 201 shares 2	48
Ditto (Lemburo's) 207 per chare s	HEPTON

PRICES OF WINING SHARES.								
REFTISH MINES.								
Charge Chargener Paid, Price.	BRITISH MINES							
235 Andrew and Nanglies 254 . 774 4006 Bedford	128 Trewayas 40							
10000 Britishiron, New Teets, 10 as	128 Tokenbury							
- Ditto ditto, scrip 10 23 4	120 Treviskey and Berrier 61 + 220							
120 Brower	9600 Tamar Consols 3 68							
100 Bwich Cwmerfin 90 200	6000 Tincroft 7 15							
100 Barristown	126 Trewelfard 12 255 1024 Trelawney Consols 12 2							
5000 Con. Trictoil Mining Ass. 3 1	256 Ting Tang							
114 Charlestown 240 3200 Cornubian Lead Co 3 14	100 United Mines							
128 Comfort 25	512 West Fowey Consols 40 35							
3560 Cook's Kitchen 8 1000 Carn Hrva 15 120	127 Wheal Virgin 20							
1000 Carn Hr.a 15 120 1000 Callington 18 20 256 Caradon Wh. Hooper 9 10	9600 Tamar Consols							
256 Caradon Consols 45 70	- West Kekewich Consols 31							
256 Caradon Mines 44 36	128 Wheal Rose							
128 Creeg Braws	1000 Wheal Harriet							
1900 Combinartin 54 8 240 Craddock Moor 3 85	128 Wheal Penrose 16 120							
128 Conductor 10 30	256 Wheal Albert 10 12							
1024 Devon & Courtney Con. 1. 5	128 West Basset 10 24							
2000 Cormilian Lead Co. 3 14 128 Comfort	256 West Caradon							
10000 Durham County Coal 45 9	99 Wheal Seton							
94 East Wheal Crofty 450	128 Wheal Henry 104 110 Wheal Hope (Zennor)., 14 18							
- East Wheal Albert 1 5	256 Wheal Hope 7 41 4000 Wheal Martha Consols. 3 3							
9000 East Tamar Consols 1 3	130 Wheal Trelawny 15 240							
123 East Wheal Seton 24 14 512 Fowey Consols 80	256 Wh. Mary Ann 5 50 256 Wheal Norris 9 124							
244 Grambler & St. Aubyn — . 50	256 Wheal Trevenna 4 4							
1000 Godolphin 35	107 Wheal Trevilson 10 5							
20000 Galvanied Iron Co 10 11	256 West Providence 7							
100 Grogwinion 5 20 1000 Gunnis Lake 14 3	256 Wheal Robins							
126 Gover 4	256 West Wheal Shephard. 2 50							
1000 Holmbush 14 22	128 Wheal Reeth 1 60 256 Wheal Gill 17‡ 18							
1000 Hanson	128 West Cargoll 2 15							
1000 HarrowharrowOld Mine 21 22	1024 Wh. Mary (Calstock) 2 — 5							
256 Herodafoot 3 6 — Ivy Tor — 16	256 Wheal Concord 14 10							
160 Levant	256 West Wh. Friendship. 2 12 128 Wheal Prospect 4 9							
100 Levant 100 128 Learnth & Penstruthal 150 120	256 Wheal Victoria 2 6 240 Westerlake 3 3							
256 Lambo 5 12	1024 Wheal Maria 1 700							
20000 Mining Co. of Ireland 7 · 12	256 Wheal Fortescue 12 222 2560 West Wh. Maria 2 42							
2800 Marke Valley 10 44 200 Nanterrow Consols 104 10	128 Wheal Pollard 5 20 512 Wheal Sarah 21 —							
200 North Holmbush	256 Wh. Cleveland 2j 5 256 Wh. Mexico 8 8							
100 North United 41 45	256 Wheal Boscastle 3g. 9							
256 North Wheal Rose 224 50 256 North Treburget 24 10	265 Wheal Kendall 104 11 128 Wheal Trannack 19 25							
100 North Pool 11 . 45 15000 Northern Coal Co 23 . 2	FOREIGN MINES.							
200 North Holmbush	FOREIGN MINES. 5000 Alten Mining Company 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
600 Old Delabole Slate Co. 25 45	10000 Anglo-Mexican Co100 3							
128 Par Consols	2000 Bolanos							
128 Pen-y-Cefn Mine 50 55	12000 Ditto Scrip 15 42							
512 Plymouth Wh. Yeoland 14 34	19000 Cata Branca (Braz.Co.) 6 —							
256 Rose Consols 10 7	19000 Cobre Copper Co 40 194 8500 Colombian Co. regis							
1024 Roscarrock 21 —	10000 Copiapo Mining Co 14 14							
860 Seeth Towns 10 14	5051 Mexican Company 59 6							
1000 Stray Park 43 . 18								
128 South Caradon 5 450	Ditto Bed Debentures 19							
256 St. Austell Consols 6 50	29320 { Ridel Monte, regis. } 28							
128 South Yeoland 114., 15	1000 Royal Shillingo 10 10							
260 South St. George 9: 14 256 South Trelawney 4: 13 256 Sourten Consols 5	2000 Pachuca Mines 3 3 11000 St. John del Rey 15 5							
256 Sourten Consols 5	43174 United Mexican 284 38							
RAILWAY TRA	PPIC RETURNS.							
Light. Preser	nt ac- Lost Traffic Returns.							
Name of Railway. Rway. tual	cost. Div. 1845 1844 782 245.c. £175 0 0 £122 5 94							

-1000299 HEX 15	-	-	TRAFFIC		a more additional to a	A THE RESERVE
Name of Rails	way.	Lgth. Rway.	Present ac- tual cost.	Last Div.	Traffic h	1844
Arbreath and Forfi		15	£140,782	24p.c.		£122 5 9
Chester and Birker		15	520,640	24	463 19 0	391 3 1
Dublin and Droghe		32	631,258	4	603 3 3	508 6 5
Dublin and Kingsto		6	349,736	9	568 16 10	561 0 0
Dundee and Arbros		17	153,598	4	214 5 10	217 19 11
Durham and Sunde		19	302,118	2	456 7 1	335 13 4
E. Counties & Nort	h. & East.	124	4,090,328	5	7036 0 0	4233 0 4
Edinburgh and Gla	agow	46	1,686,226	6	2201 16 7	1798 9 4
Glasgow, Paisley, a	nd Ayr	51	1,104,773	6	1784 8 1	1324 10 9
Hangew, Paisley, &	Greenock	. 23	806,134	2 11	680 4 5	669 4 0
Grand Junction Co.	mpany *	98	2,597,317	10	1,11,0000000000000000000000000000000000	P138 0 0
Gravesend and Roc		6	85,000	5	112 19 8	The state of the s
Great North of Eng	gland	45	1,296,196	6	The same of the sa	1830 6 7
Great Western		220	7,717,048	8	17355 4 4	16703 2 1
Hartleyool		1.00	Acres () ()	1	979 0 11	-
London and Birmir	nghamt	176	6,997,065	10	39651 10 6	17517 0 0
London and Blackw	rall	4	1,078,851	14	643 19 4	596 19 0
London and Bright	on	56	2,653,673	4	4186 5 0	3639 3 0
London and Croyde		10	842,592	34	1072 0 0	377 8 10
London and South-	Western	93	2,620,734	9	5516 5 10	5671 13 10
fanchester and Bir	mingham	31	1,959,069	0	3538 10 4	3285 13 11
fanchester & Leed		51	3,972,869	0.8.10	4857 11 0	5735 4 9
fanchester, Bolton	& Bury	10	805,968	54	644 13 11	780 1 10
didland Company.		179	6,284,631	6	16231 5 4	10027 6 4
Newcastle and Carl	isle	61	1,137,385	5	1717 13 2	1571 15 3
Sewcastle and Darl		221	1,156,379	8	2454 7 9	1014 3 0
Newcastle and North		7	316,869	8	410 0 2	332 15 10
Norfolk		12400	3.0000000000000000000000000000000000000	1	1088 11 0	220 0 0
North Union, Bolton		32	1,060,551	64	1444 0 0	1470 16 0
Preston and Wyre		99	432,014	Les Mans	420 5 5	342 17 0
beffield and Manch		19	1,313,225	Sile:4	948 14 4	561 19 7
outh-Eastern and		88	4,284,924	31	5451 10 1	4513 9 4
Taff Vale		30	611,073	34	1162 7 3	826 13 10
lister		25	358,353	5	583 0 0	654 12 5
armouth and Nor		201	250,037	5	of critical and property	220 3 11
ork and North Mi		53	1,279,951	10	4757 17 2	2325 10 4
Paris and Orleans		82	2,082,916	8	5788 3 4	4297 0 0
Paris and Rouen			1,995,306	9	4626 0 0	3929 0 0

WORK PERFORMED BY CORNISH ENGINES. er of pumping-engines reported for the month of Nov. is 36—the quantity unsed being 2440 tons, lifting, in the aggregate, 24,000,000 tons of water limits average duty of the whole is, therefore, 55,000,000 lbs. lifted I foot big motion of a bash of coat. The following are those which exceed the average

Mines.	Engines.	Length of stroke	Load in pounds.	Load per sq. inch on pist.		of coal		Average quantity of water per min.
	Western, 80-in.		87,177	18.5	4.6	2532	55'4	7 724'5
	Roberts's 70-in.		46,414	10.6	4.6	1512	57.0	2
	Sima's 80-inch	10.0	71,229	11.3	4.0	1700	63.2	761.8
	Roberts's 80-in.		75,477	12.0	6.3	2960	60'1	A SUPPLIED
	Leeds 60 inch	5.0	47,031	14.5	7.4	2146	573	176-1
	Borlase's 80-in.		117,912	18.7	5.5	4144	64.0	561-0
		10:33	84,399	12.6	3.3	1272	57.0	124.5
Carn Brea	Sims's 50-in. ?	9.0	45,201	17-9	3.9	806	68.7	182-0
United Mines	Taylor's 85-in.	11-0	91,670	14.6	5.4	2589	91.2	Participal of
Ditto	Eldon's 30-inch	9.0	13,631	16.0	8.8	673	61.9	\$ 1287-0
Ditto	Loam's 85-inch	10.0	89,341	11.8	5'2	3704	61.8	C 1201 0
Ditto	Hocking's 85-in	10.0	104,767	15.8	5-9	3807	63.8	D48.00
United Hills	Williams's 80	10.0	73,009	11.6	5:9	9864	61.5	410-0
East Wh. Rose	Pengose's 70 in.	10.0	41,152	9.6	2.9	752	61.0	3 541.7
Ditto	Michell's 70-in.	10.0	52,097	12-1	4:0	1335	59.0	A Company
	Decble's 60-in.	10.75	32,133	9.2	3.5	627	63.6	277.9
Fowey Copsols	Austin's 80-in.	10.33	70,600	12-6	5.3	1818	78.3	425-2
	50-inch ··	90	45,211	19-8	8.9	1343	628	3956

THAMES TUNNEL COMPANY.

sigers who passed through the Tunnel in the week ending Dec. 20, money, £80 11s. 8d.—(Last year, 87l. 0s. 11d.)

Shirt & Box	ipled Dec.	10, and B	OPPE	R ORBS: Svirie Hood, Redrud	h, Dec.	24, 1845.	Liley.	4
Miner.	Thus.	Pr	del win	Minne.		MA.	Pric	200
United Mines		MALE MANY	(四) 公司	South Caradon	0.01	30	Till Out	97
ditto	111		-D-078	ditto	22	Tree at 1	94.0	8
ditto		-		West Caradon	100		2 2	33
ditto	97	9 1		ditto	101	20.00		
ditto	95		2000	ditto	40	Acre D	0.0	
ditto	90			ALES TABLES	49	4 (Call Rt)		
ditto	90	****	A III (S. Land.	Wh. Maria	109	2311371		a
ditto	0.00		1100,000	With Maria	79		W. S.	191
ditto	NACK BOOK	****	9 (B) = 1	ditto	75		9 0	
ditto	78	OR EL TOTAL	or during	ditto	46	**** 0 1	0 6	Æ
ditto	76	AND COLUMN	4	Par Consols	100	Section 1	4 0	T
ditto	75	Department of the	0 17	ditto	94	11111111	200	
ditte	60		Second S	ditto	700	100		
ditto	43	4.1	6 0	Trethellan	- 66	100		15
ditto	34	100	7 7 67 1 7	ditto	69	3 14	12 6	139
Twocomen	80	of the last of the	Carried Land	ditto	167	3574 6 Ba	4	33
ditto	79	OLIGINATION.	4	Treigigh Consols	70	Euro de Se	10. 6	-91
ditto	78	COLUMN TO STATE OF	ar Carbbe	ditto	51	200	11 0	
ditto	76		016170	Penstruthal	100013	A 12 3 12 12 12 12 12 12 12 12 12 12 12 12 12	0 0	53
ditto	69	mes and Kon	an decole	ditto	0.0560	distribit	K 6	63
ditto		soadi en	0 0	West Trethellan	TORKE	namida I	100	
ditto	39	1	7 6	North Downs	16	Tous hu	389760	H.
South Carada	0 119	L SHE KNOT	1999	ditto	- 14	Martine Br	Bold:	51
ditto	91	reference a la	200	Tregothnan Com.	20030	7	11 -0	8.4
Ouro	28		14 207 OF	Treformen Cont.	0.9880	Acres - No	WW 1148 (700

TOTAL PRODUCE. #6507 12 0 Trethellan 1779 10 6 Treleigh Co 2062 1 6 Fenstrutha 2355 9 6 West Treth 2006 1 6 North Dow 1235 12 0 Tregothau

e standard, 107/. 5s.—Average produce, 7f.—Average price per ton, 5f. 3s. 0d.— of ore, 3495 tons.—Quantity of fine copper, 207 tons 1 cws.—Amount of money ns. 6d.—Average standard of last sale, 96/. 19s. 0d.—Average produce ditto, 94.

COMPANIES BY WHOM THE ONES WERE PUNCTE		
Tons.		
Mines Royal Company 2901 2901	£1478 (9.
English Copper Company 529	2964 1	0.
Vivien and Sons	3612	
Freeman and Co 6414 6414	2744 16	8 9
Grenfell and Sons	176 1	ALCON A
Sims, Willyams, Neville, Druce, and Co 200	1100 1	6 6
Williams, Foster, and Co	5890.14	6 6 1
20 C. S. 1998 607 Re. Child Shirt Sec. 2 of 2 of 200 and 200 and		10
Totaltons 3459	17,968	0 6

for sale on Thursday next, at Andrew's Hetel, Redruth.—Mines and Pa Mines 630—North Rockear 604—Fowey Consols 390—Hallenbeagie 316 60fty 225—South Rockear 265—South Wheal Blasset 220—Wheal Harri 181—Creeg Braws 116—Wheal Clifford 96—North Pool 90—Tretoll 47 Franck 39—Martin's fort 16.—Total, 2643 fons.

ionth Wheal Francis 39—Martin 5 tre 15.—Total, 2643 ions.

Copper ores for sale on Thursbay week, at Andrew 3 Hotel, Redruth.—Mines and Paicle—Carn Brea Mines 546—Tincroft 545.—Wheal Prosper 452—United Hills 278—Pe Jonsols 255.—Fowey Consols 265—Levant 181.—Week Wheal Jewel 177—Trenow Conso 67—Botallack 151—West Wheal Treasury 120—Wheal Sisters 96—Wheal Buller 31-rovidence Mines 60—Wheal St. Andrew 41—Cook's Kitchan 37—Wheal Rodney 34-fishell's for 33—Wheal Trawith 30—East Seaton 11.—Total, 3499 tons.

COPPER ORES.

At SWANSEA, for sale, Dec. 31.—Cobre 99—97—94—91—90—66—123—109—96—48—40—105—100—98—95—78. Santiago 100—96—92—90—62—37. Chii 95—91. 86—80. San Jose in Cobre 100—96. Bearhaven 96—87. Cronebane 75—1. Tigrony Molland 5.—Total 2801.

BLACK TIN Sold on the 20th of December, 1845.

Mines	vii i	To	98	P	rice.	Hilli	are, and	Ame	ount.	Purch	asers.
Chyprase		2	***	£64	7	6		£160	18	9. Daubuz.	製品
ditto			Total	tons,	64		Amoun	of m	oney	0. Ditto. , £424 8s. 9d.	CON

LATEST CURRENT PRICES OF METALS. LONDON, DECEMBER 26, 1845.

£ s. £ s. d.	
Izon -Bars Wales fos 0 0- 9 0 0	
London 9 15-10 0 0	, bottoms . 0 0-00 11
Nail rods ,, 0 0-10 10 0	
Hoop(Staf.), 0 0-11 10 0	, bars 0 0-5 4
Sheet 0 0-12 10 0	Refined 0 0- 5 8
Bars ,, , 0 0-11 0 0	Straitsh 4 10- 4 11
Weigh cold-blast?	Banca 4 12-4 13
foundry pig } 0 0- 8 10 0	TIM PLATES -Ch., IC f, box 1 14- 1 15
Scotch pig b, Clyde 0 0- 3 15 0	, IX 2 0-2 1
Rails	Coke, IC 1 9-1 10
Russian, CCND c 0 0-15 10 0	IX 1 15- 1 16 (
" PSI 0 0-16 0 0	LEAD-Sheet ! ton 0 0-20 0
Gonrieff 0 0-14 10 0	Pig. refined 0 0-21 0
Archangel 0 0-13 12 6	, common 0 0-19 0
	Spanish, in bd. 0 0-18 10
Steel, fagt. 0 0-15 15 0	
, kegse 0 0-15 0 0	
Corres -Tile / 0 0-92 0 0	ZINC-(Sheet) m export.* 0 0-30 0
Tough cake 0 0-93 0 0	
Best selected 0 0-96 0 0	
	c Discount 21 per cent. d Ditte
In kegs I and I-inch. / Discount 3 per	cent. a Ditto 24 per cent. A Net cash
In kegs and f-inch. / Discount 3 per in bond. / Discount 3 per cent.	# Ditto 24 per cent. / Net cash
m Discount 14 per cent. n Discount 14)	per cent. * For home use it is 32/, per ton.

13600320	PRICE OF	TIN	PLATES	AT	NE	WPORT	-Dec.	20.	FI.	10	ELIBER.
No. IC.,	per box			EI :	13	0	Waste	rs s	60	2	0
No. IX.	per box		*******	1	19	0	mania U	144	0	3	0
No. IXX	., per box		******	2	5	O		2.6	0	3	0

GLASGOW, Dzc. 19.—The market has been quiet this week, caused most likely by the uncertainty which exists regarding political changes. Only two or three sales have take place among the dealers at from 72s. 6d., cash, to 76s., four months' bill, and we quo their price—buyers at 72s. 6d., cash, and sellers at 75s. to 77s. 6d. The makers' pricontinues 85s. to 99s. cash, on delivery, and sales have been matte at the former priduring the week.—Glasgoet Herald.

luring the week.—Glaspoie Herald.

DEc. 23.—Prices are said to have improved these two days past—founders supplying their immediate wants have had to pay 75s. net. Several sides were made at 77s. 6d. and 50s., credit; while, at the same time, we believe, several thousand tons could have been refoured at 72s. 6d., cash. The appearance of improvement is caused by our presen collitical position—holders pausing until something definite takes place. This paper has or some time past, been enducavouring to impress on the trade the propriety of an extensive means of consumpt for pig-tron. We have just learned the nextensive firm, engaged in the meanmafacture of pig-tron, have surreyed ground nea Contbridge, and on which they are to creet a malleable work, or an extensive scale—Respon Valennal.

Glaspee National.

INDIAN METAL MARKET—(By the last Overland Mail).

BOHBAY.—The prices of sheathing and brazier's copper, and copper nalls, have slightly advanced since our last. In British bar-iron there have been several speculative transactions, at rates varying from 284 rs. to 30 rs. per candy, and 30 rs. to 31 rs. is the price now current for the article. We have heard of ne sales in Swedish iron. British rod (round and square), hoop, and nalls, exhibit little or no alteration in value. Sheet is about 4 annas per cwt. dearer than last month. In steel and quickaliver there is no change of importance, either in price or demand, but tin plates have advanced half a rupee per box, and sales have been made in pig-lead at from 3 to 6 annas per cwt. below our last quoission. Spelter is without the alightest inquiry, and quotations are quite nominal.

COAL MARKET, LONDON.

MONDAY.—Price of coals per ton at the close of the market: —Davison's West Hartley 16 6—Hastings' Hartley 18.9—Helder's Hartley 16.6—Holyveril Main 16.6—Morrison's Hartley 13.6—Jid Pentop 13.—Ord's Redheugh 14.—Pontop Windsor 13.—Taylor's West Hartley 14.—Tanfield Moor 17.—Tawning 18.6—West Writam 16.3—Wylma 16.3—Edem Main 16.6—16.—West Hartley 16.—Hartley 18.9—Tardley 18.9—Coals 17.3—Addity 18.—Helton 17.3—Edward's 17.9—Hartleyool 17.9—Hough Hall 16.—Killon 17.3—Hartley 16.—Hartley 18.—Hartley 18.—Hartley 18.—Hartley 18.—Stewart's 17.9—Hartleyool 17.9—Hough Hall 16.—Kellon 17.3—Rassell's Herton 17.3—Stewart's 17.9—Hartleyool 17.9—Hough Hall 16.—Kellon 17.3—Rassell's Herton 17.3—Hartley 18.3—Indiversal Main 16.—Edwart 17.—Addit's West Hartley 16.—Ord's Redheugh 14.—Taylor's West Hartley 18.—Hough 18.—Kellon 17.—Hartley 18.—Hartley 18.—Ord's Redheugh 14.—Taylor's West Hartley 18.—Hough 18.—West Hartley 16.—West Hartley 19.—Stokey's Hartley 18.—Stokey 19.—Hartley 18.—Hartley 18

Zoologics	18820
Boundon 20, Bedford-st., Covgar Eriday a P.	10000
Asiatie	Sec. 15

MINING OFFICES, 16, CORNHILL—Mr. R. TREDINNI) having established PRACTICAL AGENTS and DISTRICT, whereby he obtains early and ac proffers his services to capitalists and governor.

om the success consequent upon the working of mines both in England and Pray of which yield from 30 to 50 per cent, upon the outlay -Mr. Trestmake confidence recommend investment therein, as being not only highly remaners olding out peculiar influencements as the present time, from the low price at we in many can be obtained.

be obtained.

forms every information, on personal application country and application parent Agents for inspecting and reporting on m A LEAD AND COPPER MINE WANTED.

NOTICES TO CORRESPONDENTS.

uction of Bar-iron direct from the Ore, will appear in our next, as also Mining mel Islands—Air. H. Smith on the Lamerbioc affair—Dr. Marray's commu--Mines in the Callington District, &c. &c.

THE MINING JOURNAL Street Manual Street.

LONDON, DECEMBER 27, 1845.

In reviewing the state of the mining interest during the past year, there is much room for gratulation amidst the wide spread tumult of rallway speculation, which has now for two years overwhelmed the nation. All mining enterprise appeared to be annihilated, but it is pretty well apparent that that interest only lay dormant, and was gradually recrulting a giant's strength, to rise, like the "phonix," triumphant from its ashes. Since the commencement of 1845, a gradual, and apparently permanent, improvement, has been taking place in mining affairs, both in England, and many other parts of the civilised world. In Cornwall new setts have been taken, and old ones, to a great extent, which had formerly been abandoned, old ones, to a great extent, which had formerly been abandoned, taken up by capitalists, and worked in a spirited manner, to the advantage of themselves and the county—while, in the British mining share market generally, there is now a firmness and activity which has not been seen for years. In Spain, the several companies previously formed for working the extensive mineral districts of that prolific country, have been steadily progressing; even the arid plains, and rocky steeps of the north-east of Africa, and the still more distant and less known lands in our own colonies in New Holland, are being eagerly explored for mineral wealth, and the discovery of its hidden treasuries; the stars of Mexico and South America have appeared for some time past to be in the descendant, or to have arisen on other countries, and more promising climes—while, to come nearer home, we can with pleasure hall the present prospects of Ireland's mining districts, to which we have so often called attention, and which are at no distant period likely to prove, in every sense of the word, "a mine of wealth" to the "sons of Erin." This state of things proves that mining is becoming better appreciated, that instead of its being a wild uncertain speculation, it has become a fair field for legitimate enterprise; and that while some few years since it was looked upon as an arena for gambling, in which the knave, or the merely fortunate were only the successful players, it has now become a fair object of commercial enterprise, in which the merchant, the capitalist, and the private individual, may alike invest, with credit and with safety. We draw the attention of our readers to the generally improved prospects, which have begun to brighten the horizon of the mineral world, with unfeigned pleasure, and while we can thus look back on 1845 as a most favourable crisis to the mining interest, we believe we are fully justified in the anxious hope that the succeeding year will fulfil many of the expectations formed in the last, and keep up the favour taken up by capitalists, and worked in a spirited manner, to the

We fear we have been, in some measure, misunderstood as to the purport of some observations made in this Journal, about a fortnight since, in reference to the lines of railway projected for the county of Cornwall; and, as our article on the subject has been transferred since, in reference to the lines of railway projected for the county of Cornwall; and, as our article on the subject has been transferred to the columns of two respectable journals in that county, we think it the more desirable to give again the right direction, and the true limit of our observations. They were directed exclusively against the Plymouth line, as incapable of meeting the transit requirements of the county, on account of the merely sectional ground it passed over, and also on account of the sea side terminus, which it sought as its eastern extremity. The idea of running the entire traffic of the county, through such a needle's eye as Plymouth—situated down in the remote angle of the area traversed—when the true line for all public convenience would not bring Plymouth within its horison; this seemed to us a course so misdirected, so far about, and, as a consequence, so dilatory and expensive, as to be on that one account wholly inadmissible. It appeared to us further, that the severity of its gradients, which, in about a distance of fifty miles from Falmouth to Launceston, had one gradient running the length of twenty-eight miles, at the maximum elevation of 1 in 60; this is the highest gradient, we believe, which is considered practicable by locomotive traction, and wethought that the laying on of the highest steam power upon a line in which the curves are both frequent and acute, would be productive of imminent dauger in the working. We had in view also, the sharp and lengthened elbowing of the line near Liskeard, in order that it might reach the fountains of that estuary, and not ford the river itself, as in the draft of the former line, it was purposed to do; that river which, whether they cross at the Hamoaze, or evade by running north above its springs, is equally fatal to the exodus of a railway line at that side of the county. We looked at the line in the general impolicy of its course, and the all but insurmountable difficulty and heaviness of its works, and expressed an opinion that, unde

this place, that we think that would have been the resource of men who are making the great interests of the county their beacon and guiding star.

It is the essence of a good railway, that it should, as its objects and elements, embody the old transcendental maxim—the greatest good of the greatest number—and not, as this line, into the merits of which we are looking, reverse this wholesome rule, and lay itself out at the best, for the least advantage to any, and the smallest amount of good to all. This was the tenor and limitation of our observations on a former occasion. We regarded the Plymouth line as a bad line, and did not intend to offer any remarks to our Cornigh friends, as to the relative merits of any of the projects, for a Central County Railway. Certainly, we think the Devon and Cornwall line a highly valuable project. It has, firstly, what the gentlemen of Lincoln's line call the pre-engine on the ground, the original and prior right. It accomplishes the bisection of the county into two tolerably equal halves, stretching forward immediately to Exeter—the true point dappen for any trunk line emerging from the lower county; the requisite capital is subscribed, and the public has officially signified its acceptance and approbation of the line. There is another Central project, not so well known, or so thoroughly canvassed, as that of which we have just spoken—the Great Western and Cornwall Junction Railway; and to this line we think it but a matter of duty to invite the attention of the public of Cornwall in particular.

From an inspection of the sections, and general estimates of this line, as forwarded to Parliament, it appears to be some miles sharter than its rival, the Devon and Cornwall, its gradients and curves far easier, and its structural difficulties throughout its whole course far

less than those of its competitor; and the outlay to complete it, in consequence of its lesser length and lighter works, nearly a million stering less than the line which it is quite a Parliamentary possibility it may supersede. We must say, that we think it would be worth the while of the public of Cornwall, to examine the properties of this line, for it is quite certain that Parliament is no respecter of persons; and the circumstance, that a line may not have yet obtained the highest patronage, or, perhaps, impounded its whole deposits, will be but a small argument against it, if the route it takes as unexceptionable, and its structural facilities decidedly greater, than that line, which it would, under such oircumstances, certainly displace. It possesses the sine qua non, the only essential condition of a Cornwall trunk line, of being central, its engineering works, according to the returns made, are lighter, its capital less, and the distance traversed to Exeter shorter, by some miles, than that of the competing line. It is to a wise option, to a well considered choice between these two, that we think it important to direct the attention of influential parties located in that district, and conversant with its railway wants, and acquainted with railway advantages. For ourselves, it may not be out of season to say, that we have not a shilling's worth of interest, present or prespective, in either of the lines. Our sole client is the public of Cornwall—and we cannot do better in its behalf than invite, it to a fuller examination of the merits of the central lines proposed for the county. se of its competitor; and the outlay to co

The course pursued by the Duchy of Coruwall in granting mining setts, has caused considerable excitement in the county of Cornwall, from the introduction of a principle—if such it can be termed—which is at once calculated to destroy the mining interest, to diagust the capitalist and mine adventurer, and, in every sense, whether considered as regards the county itself, or the example set by the officers of the Duchy, we repeat is of no slight moment, and, although it may not be so seriously felt upon the introduction of a system so much to be deprecated, we feel assured that the time is not far distant when not only those connected with the Duchy, and others following their example, will be held up to obloquy; but, that a feeling of regret may be entertained both by the grantors and the grantees, which will in fiself form a conclusive and demonstrative proof of the injury inflicted on the mining interest by the conduct of the worthies of Somerset House, who pride themselves on their board being presided over by the consort of our gracious Queen.

Many have been the quirks and manucurvres of those connected with the Duchy of Cornwall, either directly or indirectly as regards the mining setts, to which we have already made reference. The practice, it appears, has been not only to grant to the highest bidders in some instances, but to the more favoured ones in others; and while encouragement was given, and a degree of excitement wrought up, whereby offers were obtained for the several setts, a new feature we find has been introduced by those, who, from their connection alone with the throne and Government, should have induced them to lend encouragement to mining pursuits, productive as they are of national benefit, as well as those beneficial results which may arise from individual enterprise, whilst the conduct of the parties, either known to him or well recommended, who he was led to believe would work the ground effectually, with the view to returns being made by ores, and not by the sale of shares—in fact, that thirtieth dues, with a view of encouragement to the adventurer, and, in the instance of the Carn Brea Mines, the dues were granted at one-twenty-fourth; but we should remember that this was in the time of the esteemed and lamented Lord Dr. Dusstanville, and the time of the esteemed and lamented Lord Dr Dunstanville, and Mr. Retnoles, his steward. A change has, however, come over the scene, and while stewards are no longer chary of receiving dowceurs or bribes, Christmas boxes or New Year's gifts, whether at Midsummer, or any other period of the year, we find not only that the lords are willing to take a bonus on granting the setts, but have no objection to take a certain number of shares which they may sell at a premium in the London market, knowing full well what are the objects and motives of those to whom the grant is made. Were an instance required as evidence in support of this assertion, it would be sufficient to advert to the case of the Lamerhooe Mine, which has been discussed at considerable length in our columns, as to the morale of the several parties connected therewith, and we merely refer to it as one of the many, and which, from its late notoriety, may be more familiar to our readers. In this case, Mr. Letiering grants the sett, for which he takes as a bonus 1000L; the also stipulates that some 200 or 300 shares shall be given him, and which, at present prices, we may assume at 5L per share, or 1500L additional bonus. It may be asked by many innocent ad-Letheriors grants the sett, for which he takes as a bourns 1000f.; the also stipulates that some 200 or 300 shares shall be given him, and which, at present prices, we may assume at 5t per share, or 1500l additional bonus. It may be asked by many innocent adventurers, who embark their capital alone, with the object of working the mine and not the shares, how is it that a sum should be thus given, and a deviation made from the general principle? This is readily solved; the parties thus taking to the bargain, at once introduce the sett, or rather, we should say, the shares, to their immediate friends, and the public at large. In pursuing this course, the grantees, by disposing of a portion of the shares at an advanced price, are enabled to pay the lessor, or lord, the sum agreed upon without any advance from their own pockets, and hence, as in the present case, some 8000l. or 9000l. remains to be divided as a surplus between the concoctors of the scheme.

It will be seen, however, that the Duchy authorities have improved upon the system, being determined, as Dax would say, "to bang the bannagher;" for not only does this liberal and influential power exact extortionate dues, but they require a certain per centage out of the profits which may be realised. It should be remembered, en passant, that in the payment of dues, the proportion taken by the lord is a part and parcel of the ores raised, no matter what their cost, or what the loss at which the mine is working, and hence to the lord it is a matter of no moment, whether a profit or loss is attendant on the operations of the adventurers; while we find the liberal commissioners of the Duchy of Cornwall, if they do not require, at least comply with terms proposed, that of receiving a certain per centage of the net profits, after payment of all the expenses of the mine, including even the dues, or royalty.

We have already noted one instance of the system observed by lords in Cornwall, and the "fawns" of London; and as illustrative of our remarks with reference to t

cornwall, or the precinets of the Royal Exchange. Thus it is, the sett of Wheal Williams, in Calstock, being unworked, some thirty-five or forty applications were made for the grant. If we are rightly informed, the successful parties are Edmund Terrier. Eq., M.P. for Truro (who, of course, may naturally be supposed anxious to advance the interest of the county, a portion of which is represented in his person), and by certain friends of that gentleman, who, we believe, whether rightly or otherwise, have been classed as part and parcel of the Truro clique—the terms being one-twelfth dues, and 33 per cent. out of the profits; the sett is, on such terms, of course, granted—with what credit to the one party or other we leave our readers to judge. We think we have said enough to establish our position, and have only to regret, judging from the present state of things, as far as the Duchy is concerned, that we can only use terms of reprobation to "One and All."

If any further comment were necessary, it will suffice to state, that the shares in the Wheal Williams sett, thus acquired by the

Cornish member and the clique, are offered in the London market at a promium of 50. per share: we need hardly say that the results, beyond present gain, is one of the least consideration. This fact, we consider, at once establishes our argument and position.

at a premium of \$60, per share: we need narray say has an resure, beyond present gain, is one of the least consideration. This fact, we consider, at once establishes our argument and position.

Having frequently remarked, at some length, on the formation of new mining companies in Ireland, and the vast amount of good they would, doubtless, effect on that hitherto unhappy country, we are now well-pleased in being able to state, upon good authority, that the Southera and Western Mining Company of Ireland are progressing far beyond their most sanguine expectations. We have before as a circular, addressed to each shareholder, signed by Mr. W.CONNELL, of Cork, the secretary, in which we are informed, that the company have succeeded in purchasing the Gurtavallig Mine, on the south-east coast of Bantry Bay, on most favourable terms, together with the whole royalty of the estate in which this promising mine is situate; and which circumstance renders it necessary to increase the number of shares from 10,000, of 200. each, to 15,000, of 10. 5s. each; deposit 20. per share—the Gurtavallig proprietors having stipulated for 5000 shares. Operations have been for the past three months carried on, and, although the labours of a handful of men cannot, in so short a time at this season of the year, exposed to the inclemency of the weather, on an open and bleak coast, be expected to do much, they have yet raised sufficient ore to pay treble the amount of wages, and there is every reason to believe that not only will the company eventually reap an abundant harvest, but that they will lay the foundation of a state of things which will open a wide field of labour for the entire population of the surrounding district—convert the wretched mud hovel into the comfortable cottage, the half savage inhabitant, into an industrious labourer, and a sterile, and unprofitable waste into wide spread fields for the operation of industry, and the production of wealth. We have often had occasion to speak of the promise of wealth. We have often had

men, who, while exacting the last farthing, to add to their own over-filled coffers, have reduced the peasantry of Ireland to houseless misery, starvation—death.

We have, in various numbers of the Mixixo Journal, alluded to the mineral wealth of Algeria, in iron, lead, copper, and even manganese. We perceive that a council has been appointed by the French Government, assisted by experienced mining engineers, to explore minutely this new colony, and to make a report to the Minister, at Paris, on the resources the country offers to mining enterprise. In consequence of its being known that some valuable mines do exist in the north of Algeria, and that in the province of Algiers from ore is very abundant, a great stimulus has been given to speculate in working these newly acquired treasures. The number of applications to the Ministers of War and the Colonies for grants or concessions of mines has far exceeded the limits the Government had intended to have allowed; it has, however, made some very extensive grants, which may be considered as copyhold, or even free-hold, to the adventurers, but under the most strict engagements on their part, that if they do not properly work such mines, and carry out, to the fullest extent they possibly can, the contract they have entered into, such mines will then revert again to the Crown. Within the last few years, the tide of emigration from France to Algeria, has been rapidly increasing, but particularly during the present year, and some first-rate miners have ventured to try their fortune in this colony, which many look upon as the future El Dorado of French conquest. France is deficient, as we have repeatedly stated, in iron, to meet her demand, and is, therefore, obliged to import annually to a very large amount, not only from this country, but Belgium, and particularly Sweden, for her steel factories. It is this dependance upon England and other foreign countries for this important metal, that so much grieves the anti-English feeling of our Gallic neighbours; and fit is to

A meeting of the adventurers in Stray Park and Camborne Vean was held on the 19th inst., where, from its having been privately convened by Mr. Humpher Willyams, we were, of course, not invited—a matter we can well understand, if the information we have received as to the nature of the proceedings be correct. We pass by any remarks which that gentleman may have thought proper to make as regards the observations which have fell from us.

pass by any remarks which that gentleman may have thought proper to make as regards the observations which have fell from us, or which may have originated from correspondents, but at once advert to a point raised, and which forms a subject of interest and discussion, between the parties. We are well aware that the present must not be considered as a solitary instance, but it will well serve our object, and that of the proprietors, in giving it publicity. The Stray Park and Camborne Vean Mines have been worked for many years at a heavy cost, attended by fluctuating returns—while the adjoining sett, known as St. Francis, we have good reason to believe, was promised to the adventurers by Mr. Rennolds, as steward to the late Lord Dr. Durstanyilla, and the present Lady Bassett. It appears, however, that Mr. Humpinen Willyams has, subsequently, obtained a promise of the sett referred to from Mr. Vivian Ronnsson, who has succeeded to the office of ateward to Lady Bassett. We cannot suppose for a moment—following up the remarks in an article which appears in our columns of to-day—

that either the steward, as representing Lady Bassert, or Mr. H. Willyams, as the lessee or adventurer, had been parties to anything in the shape of bonus—indeed, the very characters of Lady Bassert, and the other parties, ought at once to preclude even a suspicion that such was the case.

If we are to judge by the course pursued by Mr. Humpmen Willyams, it would, we must say, lead us to the belief that that gentleman was actuated only by the purest and most liberal motives, inasmuch that he not only convenes a meeting of the adventurers, but liberally offers them a moiety of the property he has acquired, and the profits which may accrue. Will it be believed that the liberal offer thus made was unanimously rejected? And why, forsooth?—simply because a previous promise by the previous steward had been made, and that the promise of a later date by the later steward was not considered good or valid, whether in a legal or moral point of view; and, moreover, being in favour of an individual, and not that of "One and All." The adventurers thanked the honourable gentleman, and declined the acquisition of a half, where they considered they were entitled to the whole. We should not thus have dwelt on the subject, or have attached to it so much importance, but that we are anxious those most interested in working mines in the county of Cornwall should have their attention directed to abuses thus proved to exist, and which are calculated so much to reflect discredit, and militate generally against mining pursuits.

PRICE OF IRON IN FRANCE.—The sales at St. Dizier on the 18th inst. were very fair for the provinces, and large lots realised 16t. 10s. and small lots were paid even as high as 16t. 16s. The iron merchants of Paris have been purchasing very little lately, as they will not give 16t. Flat iron was sold at 14t. per ton, delivered at St. Dizier. On the whole, the iron trade is in a very dull state—the ironmasters wishing to obtain high prices, and the purchasers are very reluctant in making any extensive speculations. The important question now before the Minister of Commerce, as to the allowing the importation of northern iron at a reduced duty, occupies the attention of the iron merchants and contractors generally throughout France, and, as the forge or ironmasters wish to rise the price for 1846, very little will be doing until Government has decided this vital point, which will be so beneficial to the progress of speculation.

PURIFYING OF GAS.—M. Peclet lately laid before the Society of Ra-

PURIFYING OF GAS.—M. Peclet lately laid before the Society of Encouragement of Paris, a machine for the purifying of hydrogen gas, used for the lighting of lamps, shops, &c. It is composed of a horizontal cylinder, partly filled with time water, the axis or axie-tree of which is covered with diaphragms of metallic canvas, turned slowly; the gas is introduced into this cylinder, and is much better parified than in the common apparatus used, and was generally approved of by the committee of the society.

The Iron Trade—(From a Correspondent).—In the article, in last week's Journal, a mistake occurs as to the present aggregate sale price of Guest and Crawshay's make of iron—a cypher being left out, it stands 135,000. instead of 1,350,000.; the apparent gain to the above two establishments being 750,000. I am quite sure this is what you intended that the statement should show; hence it would appear that, supposing the proprietors of the works in question should have had no profit in 1843, the deficiency now is made up, and a good round sum for a dividend.

prictors of the works in question should have had no profit in 1943, the deficiency now is made up, and a good round sum for a dividend.

Coal Thars—Corromation Dues—Another case respecting the question—what is, and what is not, coal? came before the magistrates at the Thames Police office, on Wednesday last, which is likely to have some effect on the sale of small coal at the pit's mouth in the northern collieries, which has for some time past been shipped to other destinations for the purpose of brick making. It appears that a Mr. Heron is largely engaged in the manufacture of bricks in the neighbourhood of Loudon; and breeze and other largedients of that description being scarce, he had made arrangements with some of the coal proprietors in the north for the purpose of the old alacks and siftings, upon which the rails were laid from the pit to the shipping place, on certain occasions where the roads had been broken up. On arriving in the port of Loudos, and breaking bulk without paying the corporation dues, they were pounced upon by the officers, and the case was at once brought before Mr. Broderip.—Mr. Pearson attended for the corporation, and Mr. Pelham for the defendant.—Mr. Thomas Foster, the master of the ship Hopswell, was the party charged for breaking bulk of a cargo of coals without paying dues, and the defence was, that though acknowledged to be fisel, it was not imported as anchybat for the purpose of making bricks, and that the general impression at Now-castle was, that on its arrival in London as "asbes," for the manufacture of bricks, it would not be sabject to duty.—After a long discussion between the solicitors, with some observations from Mr. Broderip, as to the legal, as well as geological, explanation of the word "coal;" that gentleman gave his decision that, for whatever parposes the article in question was brought to London, there could be no doubt but that it was coal, and subject to the corporation dues, but on the understanding that there would be no opposition to paying the duties on

acted from a sincere belief that he was importing an unchargeable article, freely consented to pay for whatever quantity he might hereafter import.

Swansea Dock Company.—With the rapid increase of the produce and population of the South Wales iron and ceal district, which, haif a coutnry since, was almost unknown and unappreciated, the accommodation for the vast increase of trade has not kept pace; the harbour of Swansea, from its situation at the mouth of the Bristol Channel, the most convenient for the great mineral district of South Wales, is at present totally inadequate to give the necessary shipping accommodation, and hence it is that the supply of all the great necessary shipping accommodation, and hence it is that the supply of all the great necessary shipping accommodation and hence it is that the supply of all the great necessary in shipping in that port, whose vessels trade with Cuba, America, &c., the greatest portion of this trade alone might be calculated to be taken up by them, and a vast increase of the general trade of the portaries when rallway accommodation shall have enabled the manufactures of Manchester, Stafford-shire, &c., to be shipped as cheaply at Swansea as at Liverpool. Under these circumstances, the present company has been formed, for the construction of capacions and competent wet docks, with all necessary accessories and convenience; a site for such purposes has been chosen of the most eligible nature; but few proprietors occupy the land required, and the interference with buildings or other valuable property (generally a heavy outlay in populous towns) will be but small. The construction of such works will materially improve the interest of the proprietors of the railways centreing in Swansea, and which, from the vastly increasing commerce of the port and neighbourhood, will most probably prove a highly profitable speculation. From the statistics of the port, it appears that, although the first cargo of foreign ports has been as follows-viz.: 1817, the quantity in the past yea

1844 4017 261,698
1845 4182 268,243
thus showing a highly satisfactory and increasing trade, and preving almost to a certainty that the establishment of the docks in question will return an ample per centage for investment. The capital is 200,000t, in 10,000 shares of 20t,

ample per centage for investment. The capital is 200,0004, in 10,000 shares of 208.

Viaduut over the Rhone.—This most gigantic work of art, as imposing from its proportion as it will be remarkable in its details, will be raised upon the two banks of the Rhone, near Tarrascon, in order to form a communication between the railway from Cetie to Beaucaire and that from Avigmon to Marwelles. This viaduct will be four hundred metres in length, the length being calculated from one opening to the other. The impetitions waters of the river will pass the viaduct through seven opening of sixty metres each, and an idea may thus be formed of the colosal mass which this monument, of which the plan is at Tarrascon, will present. The author of the project has avidently wished to give a Gothic character to the abutments of the bridge, for which purpose he has rounded them and surmounted them with turrets, which on either side of the river will have the appearance of the clock towers of the cathedral; the parapets of the bridge will be sculptured work, and in such way as to afford an appearance both of solidity and elegance.

STUPENDOUS BRIDGE AT RUNCORN.—Some idea of the magnitude of the bridge proposed to be built for carrying the Grand Junction Extension Railway across the Mersey may be formed when we state that there are to be five wet arches of 280 ft. span, 100 ft. above high water mark at spring tides, and 168 dry arches of thirty feet span, and fifty-one feet high, making a total of 2490 yards of arching, which will be, when completed, the greatest work of the kind in Europe. Lord Francis Egerton, with a desire to meet the wants of this rising port, is about to creet docks of great extent on the shore of the Mersey; and will also apply, at the next session of Parliament, for a trunk railway; thus affording the port a ready transit for goods, in addition to the two ganals in his Lordship's possession.

MINING IN 1845 .- No. L

vious years, and the past year has not only kept up the position of the market among commercial transactions, but has formed an era in the ex-tension of mining isself, and one which, we trust, will prove a stimulus to

vious years, and the past year has not only kept up the position of the market among commercial transactions, but has formed an era in the extension of mining isself, and one which, we trust, will prove a stimulus to fature years' prosperity. In giving some idea of the returns of 1845, we will first take twelve mines, giving with each the quantity of ores raised, and the amount obtained.—Carn Bree, 6674 tons, 39,4621; Botallack, 1274 tons, 95656; South Wheal Basest, 2012 tons, 11,3441; South Caradon, 3964508, 17,0081; United Mines, 11,654 tons, 40,3451; Tresavean, 5037 tons, 92,8881; Wheal Maria, 8884 tons, 90,3251; North Roskear, 3135 tons, 20,9311; Poldice, 2120 tons, 91386; Holmbash, 1628 tons, 21,7244.—making a total of \$4,200 tons, and an amount of \$38,5385. The dividends paid during the year on the first eleven of the above, and the following minas, has amounted to nearly 200,000.—East Wheal Rose, Tineroff. Wheal Eriendaship, Fowey. Consols, Par Consols, Trethellan, Trentow Consols, Treviskey and Barrier, Wh. Brewer, and Tamur Consols.—Among the dividend-paying mines of Cornwall and West Devonshire, we may here enumerate the following as being especially worthy of notices—Bast Wheal Rose is now paying dividends of 3601, per annum, besides bonness; the present market price per share is 15001.—being equal to three and three quarter year's purchase. The Devonshire Great Consols, of 801, per annum—the price of a share is now quoted at 7001, consequently, about eight and a half years' purchase; North Roskear, 1801, 6002.—years, three and a half; South Caradon, 751, 4504.—years, six, west Caradon, 751, 7001.—years, nine; Rotallack, 601, 4001.—years, six med a half; 1801.—years, six west Caradon, 751, 7001.—years, nine; Rotallack, 601, 4001.—years, six west Caradon, 751, 7001.—years, nine; Botallack, 601, 4001.—years, six west Caradon, 751, 7001.—years, nine; Botallack, 601, 4001.—years, three and a half; Cara Bree, 121, 1001.—years, three and a half; Cara Bree, 121, 1001.—years, three and share was half when th

VALUE OF CANALS AS JOINT-STOCK PROPERTY.

Joint-stock companies have, within the last half century, increased to an almost incalculable extent, and are still increasing, and have in a social and commercial point of view, been the means of producing the majority of those gigantic works, and noble institutions, which render this fivoured island the wonder and admiration of the world. Among the very numerous undertakings which have been carried out by these bodies, which private wealth never could have accomplished, and to many of which Government most probably would never have lent its aid, some few have proved a certain loss to the proprietors, some have paid a moderate interest on the capital, others have proved a source of revenue far above the commonly rated value of property, and a few have returned an enormous amount of interest; the principal among this latter description is canal property, on which large fortunes have been raised, and as these are likely now to be greatly interfered with, if not annihilated, by the construction of railreads, we have collected some particulars of their present position, to place before our readers, as a matter of reference at a future time, when it is not improbable that canals, like all other sublumary matters, will be only noticed as among the things that were. The following table will show their relative value: and commercial point of view, been the means of producing the majority

(800)	Canals.	Price	p. ah.	Div. per	ann.	Per et.	er a
	Loughborough			£140			
P2.0	Leeds and Liverpool		00	168	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	68	ADD NO
	Erewash			64	*****		
14	Oxford			60		10000	
120	Coventry			50	** ***	No.	
	Neath	16	00	40	*****		
	Stafford and Worcester	1	10	56			-
14	Cromford	16		28			liver
125	Shrewsbury	15	35	30			
	Birmingham	1	35	8	****	15/11/200H	
Test.	Monmouthshire			20			320
Solia	Melton Mowbray	10	00	20			K) III
	Warwick and Birmingham	10	00	18			
	Warwick and Napton	16	00	16			
82	Grantham		50	12	****		
*500	Derby		10	16			
765	Glamorganshire		21	27		154	
	Barnsley		10	24			Piers?
	Leicester	Id	10	20	*****	14k	MOD)
0.52	Grand Junction			14		a. 14	×2 14
	Stourbridge		15	40	*****	14 14	
	Ashton and Oldham	5	8	10		10#	
121	Leicester and Northampton		34	8	****	10	35%
207	Montgomeryshire			10			371
	Somerset Coal			15		10	557
	Severn and Wye					10	RIVE
	Worcester and Birmingham		84		** ***	10	
4.30	Roehdale			8		94	200-20
,85	Peak Forest		8	6			
	Ashby-de-la-Zouch			8			
	Brecknock and Abergavenny	10	0	10			
rista	Ellesmere and Chester			8			
	Regent's (London)		31	The second second	*****		09
0	Somerset Coal Lock Fund Stock		24	M1000 7000 LA			
	Wilts and Berks		74	ARTON AND THE	*****	31	
	Kennet and Avon	ereases. A	0	COMMON TO		2	87.01

Thus it will be seen that, with the exception of two, there is not one out of thirty-six canals, but what has paid from 6 to 10 per cent., while the others have ranged from that figure to 20, 30, 60, and one even to 98 per cent.—an average of return unprecedented in joint-stock undertakings—(excepting perhaps a few of the earlier assurance companies)—whether railways, banks, docks, or others.

EXPORTATION OF BESTISH AND IRISH MINERALS.—The following are the declared values of the exports of British and Irish minerals, in the ten months ending November 5, 1845, compared with the exports in the corresponding periods of 1843 and 1844:—

men et alle de la constant de la con	1843.		1844.	1845.	
Coals and culm	£602,428		£569,090	 £841.687	
Metals-viz., Iron and steel	2,187,537		2,850,571	 3,080,964	
Copper and brass	1,414,853		1,440,955-	 1,502,941	8
Lead	228,199		235,155	 192,695	
Tin, in bars, &c	93,855	*****	67.817	 45,608	
Tin plates	344,437		417,643		58
Salt	183,424		195,572	 186,888	Δű

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MANUFACTURE OF IRON.—The value of iron for manufacturing purposes isit seems, considerably deteriorated by frequent change in the mode of trans,
port, and exposure to the atmosphere. A proportionate oxidisation ensues;
and when it reaches its destination, it is so much per cent. less valuable than
if conveyed at once, and almost uncooled, from the furnace to the workshop or
factery. What can be done with it in this condition is illustrated by the following smarthalle fact:—Thirty-one pounds of Shropshire iron has been made
into wire apwards of one hundred and eleven miles in length; and so fine was
the fabric, that a part of it was humerously converted, in lieu of the smal
horsehaft, into a barrister's wig! I norder to effect this extraordinary tennity,
the process consists of heating the iron and passing it through rollers of eight
izoches diameter, going at the rate of four hundred revolutions per minute, down
to No. 4 on the wire-gauge. It is afterwards drawn cold, at Birmingham or
thowhere, down to the extent of 38 on the same gauge, and so completed to
else surprising length of one hundred and eleven miles.

EXTENSION OF, AND ECONOMY IN, THE USE OF GAS.

The almost universal adaptation of gas at the present day to the purposes of artificial illumination, renders any improvement in its mannifacture, whether as regards economy in production, safety in its use, or increased brilliancy in its results, of the utmost public importance, and which would, doubtless, if properly brought forward, prove renumerative to the promoters in proportion to its excellence. More than one attempt has been made to introduce to public notice a system of gas lighting for domestic use, by which it could be generated on the premises, and produce a brilliancy of light at a greatly reduced cost, but none have as yet completely succeeded. The "Pellatan light," "Shillibeer's pstent," and others, seem to have been completely estinguished, and the public are left to the "Hobson's choice" of gas at a large cost, or none. A new light, however, appears to be about to shime upon us; and, if what we have seen in the arrangements, and is staid in the prospectus of a new company just put forward, under the title of the Universal Gas Company, can be borne out, we think there can be little doubt of complete success. This company is formed for carrying out, and working the, patent of Henry Francis, Esq., of Elizabeth-struce, Endon-square, for the purpose of enabling small towns, villages, lighthouses, dockyards, colleges, churches, hospitals, theatres, public offices, manufactories, printing offices, prisons, barracks, ruilway statens, most moderate cost; and so portable and compact is the apparains, that it can be fitted up on any description of building, or at the Etichen range of any mansion, without at all affecting the domestic interests, either by lessening the heat, or intrading on its limits; and the fire in ordinary use will be ample to generate the gas, and produce steam, if required, forwarming the premises. It is stated in the prospectus, "that the most emisting the inflavor of the gas, only required to known in order to insure the invention bei EXTENSION OF, AND ECONOMY IN, THE USE OF GAS.

THE ENGLAND LIFE AND INVALID HAZARD ASSURANCE COMPANY.—A preliminary notice of the formation of a new assurance association under the above title has just appeared, having for its object the filling up that deficiency which exists in the present system of life assurance by the general refusal to insure lives unless in robust health, from which circumstance a large proportion of the population are shut out entirely from its benefits This projected company will, in a great measure, adopt the principles of fire assurance, and will effect assurances on lives deviating in various degrees—from a state of full health to a precarious and even dangerous condition—they will thus have "hazardous," "double " and "treble hazardous," &c., and offer advantages to those whose lives are aimost hopeless, who would wish to avail themselves of the principle, but are entirely shut out by the present system. Persons engaged in dangerous undertakings, and the numerous cases ineligible under the present arrangements, will be assured by this company, and those profitable risks refused by the present offices, but where the risk is merely imaginary, will be the peculiar objects of the company. The general business of this company will compaise the usual routine of assurance business, and the advance of money on freehold and other landed property, and on approved railway shares, scrip, and contracts for railways.—An important question arises in the investigation of this subject, which, probably, has been lost sight of by assurance companies generally—the very foundation of the principle appearing to be, that none but really sound lives are eigible, and that there can be not security to the assurers in taking an assurance on an invalid life; this question—vis., Can the chances on invalid lives be sufficiently calculated to insure the company from general loss? we should consider of easy solution: in the present state of statistical knowledge, as well medical as moral and political, there can be but little doubt on the subject, and that the risks arising from lives. In the bills of mortality, in the metropolis as well as in the provincial districts, it is, at stated periods, ascertained, by registration, what diseases are the most prevalent in certain localities, and what the most fatal; and, from such data, there can be no question of the possibility of forming tables which will securely provide for every casualty. Again, medical science has, in connection with scien This projected company will, in a great measure, adopt the principles of fire assurance, and will effect assurances on lives deviating in various de-

MINERAL RESOURCES OF AUSTRALIA.—For some time past, "a rumour with her hundred tongues" has assigned to one particular district, about eighty miles morthward from Adelaide, an amazing pre-eminence in mineral wealth, in the shape of a monster lode or vast deposit of copper ore, traccable to the extent of fifteen miles in length, carrying with it a visible breadth of from fifteen to twenty foot, and yielding surface copper in sufficient shundance to load fundreds of drays with the loses mineral. It appears that a shopherd from the district alluded to (or if another district, for others are confidently spoken of, rivalling the first in mineral riches) lately brought into Adelaide some remarkably rich specimens, and information so explicit as to have had the effect of rousing a number of colonists, not easily influenced by anything speculative. These gastlemen at once commissioned Mr. Finks to accompany the reported discoveries who not only found his report well grounded, but made some other rilliant discoveries himself. To make assurance doubly sure, however, the scene of this extraordinary mineral wealth has been visited by several guestlemen, possessing not only a good knowledge of minerals, but who, having made themselves acquainted with the operations at the successful copper mines at Kapunda and Montacute, can draw a just comparison between those valuable properties and the newly-examined champion lode, which Mr. Finks has examined to the extent of about a mile and a half of its presumed great length, and found to carry a surface breadth of from six to twenty-three feet. Among other visitors to the spot, we may mention Mr. Matthew Moorhouse, who not only confirms the fact of the discovery in all its important details, but says he as a lump of rich copper ore, measuring many cubic feet, amongs the extraordinary quantity of scattered debris, which he pronounces ready and fit for immediate removal from the surface. Upon the strength of these facts, an application has been made to his Excellency the Governor, on

associated gentlemen for a special survey of 20,000 acres in a block, at the upset price of 1L per acre, in conformity with the landsale regulations; and his Excellency, so far from throwing any difficulty in their way, has assured them of his desire to facilitate their views. Indeed, so many gentlemen of experience, integrity, and caution, are so well satisfied of the indubitable security of the proposed measure, that we may say it is as good as carried, only awaiting a definitive arrangement with the banks. It is said that the manager of the South Australian Company intends to take 5,0004, on behalf of that Company, and Captain Allen, Mr. Stocks, Mr. Bunce, Mr. Matthew Smith, Mr. Hallett, Mr. Beck, Mr. Granger, and other gentlemen, are populated to make up the required amo unt. In amouncing this crowning dissovery (aptly described by Mr. Osmond Gilles, as the triumphal arch in the mineral kingdom in Scath Australia), we find it necessary to assure our readers, here and elsewhere, that we hever felt more forcibly the duties of moderation and circumspection; and influenced by these visues we forbear to give expression to what we have seen, and others have identified, suffice to warrant-our belief that copper abounds in our mountain ranges, and elsewhere, to an almost unlimited extent, and which would have been described by Dr. Johnson as "rich beyond the dreams of avarice."—Adelaide Observer.

THE MINING TO

ENLARGEMENT OF THE "ATHEN EUM."—On and from anuary 3, the "ATHEMÆUM" will be ! ge quarto pages.—Price FOURPENCE

The Harps quarto pages.—Price FOURPENCE.

PAILWAY GREASE.—RAILROAD CONTRACTORS, MINING AGENTS, and OTHERS, who require a FIRE CHEAP GREASE for HEAVY BEARINGS, are required to TRY JOSEPH TURNBULL'S ANTI-FRICTION GREASE, which is proved by acientific men to surpose all others for its lubricating qualities, and for cheapness.—Samples and price, per return of post, by applying to F. Taylor, No.45, Munster-equires, Regentis-park, Solk. AGENT FOR LONDON; or H. Singleton, Bodmer, and Co. Marble-street, Manchester:

P.S.—Single and double jacks, to raise from two to twenty tons, at wholesale prices.

ONDON SEWAGE COMPANY.

—The engineering plans have been deposited, and the necessary notices surved, and every requirement of the Standing Orders of both Honese of Parliamont has been complied with. A very able report, by the company's engineer, has been received and adopted, and will immediately be made to the secretary.

ANDREW MARTIN, Secretary.

4, New London-street, City, Dec. 26, 1845.

THE ENGLAND LIFE AND INVALID HAZARD

THE ENGLAND LIFE AND INVALID HAZARD
ASSURANCE COMPANY.

Capital £1,000,000, in 20,000 shares, of £20 each.—Deposit £1 5s. per share.
This company is provisionally registered under an Act of Parliament of the 7th and 8th
Victoria, cap. 110, which provisionally registered under an Act of Parliament of the 7th and 8th
Victoria, cap. 110, which provisionally registered under an Act of Parliament of the 7th and 8th
Victoria, cap. 110, which provisionally registered under an Act of Parliament of the 6th act of 6th

Office. Est	ablished		Amt.			uni			Pres	ent		Proj		
Atlas Fire and Life	1808		£ 50						217	0		£240		
Economic Life	1823		1000	4	250	0	.0		1200	-		 -	-	
Guardian Fire and Life	1821		100		36	10	0		50	15	0	 40	0	0
Imperial Fire and Life	1820	:	100		10	. 0	0	****	16	10	0	 67	0	
Law Life	1823		100		10	0	0		49	0	0	 390	0	0
Legal and General	1836		50		2	0	0		6	10	0	 225	0	0
Rock Life	1806		. 5			-	100		4	17	0	 375	0	0
Sun Life	1810		100		10	0	6		47	0	0	 370	0	0
Universal Life	1834		100	****	6	15	0	****			- 0	 166	0	0
Royal Exchange Fire, }	1820		Stock 100		132	et.	rb,	.,,,	188	0	0	 88	0	0

Royal Exchange Fire, 1820 ... Stock ... 188 0 0 ... 88 0 0 Marine, and Life. 1820 ... Stock ... 188 0 0 ... 88 0 0 Marine, and Life. 1820 ... Stock ... 188 0 0 ... 88 0 0 Marine, and Life. 1820 ... Stock ... 1820 ... 18

To the Directors of "The Engined" Life and Invokit He. Gentlemen,—I request you will allot me shares, ber, in this company; and I undertake to pay the deposit namely, 5s. on the allocument, and the remarking 2t on ex for scrip, and executing the deed of the company.—Dated Name Name in full

rade or profession lace of business (if any)

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THE ENGLAND LIFE AND AGENTS.

The directors of this company are desireous of appointing one or more gentlemen (possicians, surgeous, or general practitioners) as medical refurees, in each of the principal towns in Great Britain and Ireland, and also in foreign countries, to whom applicants towns in Great Britain and Ireland, and also in foreign countries, to whom applicants for assurance, residing is their districts, may refer. It will be the duty of the gentlemen appointed, to ascertain and report to the company the state of the health of such applicant, and to visit the assured in certain cases of liness.

The directors will appoint agents to transact their country and foreign business, who, as well as the medical referees, will be required to hold not less than five shares in the company. A cacle of see and allowances to medical referees and agents will be forwarded previous to the company commencing business.

Gentlemen desirous of being appointed, are requested to make immediate application to A. R. Bunn, Esq., severelary pro term, at the company's temperary offices, Queen-street Chambers, Chicapadde, London.

RINGWORM AND OTHER SKIN DIMEASES EFFECTUALLY CURED BY HOLD WAY'S PILLS AND OUTTIMET.—MITS Grace More, No. 5, Hemiock-court, Carry-street, L. don, has a little girl, who, for four years, was dreadfully disquared with ringworm most every surgeon of calebrity had been consulted, as well as every rancely for a cases tried in vain, when the father of the child, who is a law writer, was recomment to try Holloway's calebrated medicines, which effectually cured the child in three wee No scrohlous sores, blotches, pimples, or accelerate humoure can resist the power of the far faunce remedica.—Sold by all medicine vendors, and at Professor Holloway's to blishment, No. 244, Strand, London.

THE CORNISH RAILWAYS.

Comparative Statement of Grackents, Tuniels, and Length of the Corneall and Devon Central Railway, and the Great Western and Falmouth Junction Railway, between Falmouth and Exeter.

GRADIENTS ON THE CORNWALL AND DEVON CEN	TRAL LDH.	GRADIENT GREAT WES FALMOUTH		CORNWALL AND CENTRAL LI	DEVON	GRADIENTS ON THE GREAT WESTERN AND FALMOUTH JUNCTION
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TUNNELS ON THE CENTRAL LINE.	TUNNELS ON THE GREAT WESTERN AND FALMOUTH JUNCTION LINE.
M. F. TROM FALMOUTH. Fords 120 Penrys 120 Pe	At Burnt House Ford Killiow 226 Killiow 924 Bucks Head 440 Launcestee 924
78 3 Hatherleigh	at the first transfer of the second of the second
102 3 Exeter, not marked on sec	

Changes of gradient on Cornwall and Devon Central 144.

	STATE OF THE PARTY	50 Miles (1970)	ca Medita	the fill the second	Cal en	1784
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No.	ncess of tunnelling on the Central line	******	*****	4	1876
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ength	of the Cornwall and Devon Central line		103	119	0
	opposition want a Talendaria but salk		F.	a sille	
Ditto	Great Western and Falmouth Junction 1	ine90	7		
Tales.	Exeter and Crediton Bailway				

Greater length of the Central line 5 3 0

Changes of gradient on Great Western and Falmouth Junction 45.

TO JOHN HEARLE TREMAYNE, ESQ.

obna st Sold gra

London, 18th December, 1945.

In importance of the subject upon which I am about to address you, and the silien which you hold in relation thereon, will render any spokery from an far tills better in the control of t

manner of to.

ed to.

mout to be, Sir, year most obedient servant,
THOMAS HARVEY.

ATMOSPHERIC RAILWAYS.

ATMOSPHERIC RAILWAY S.

TO BARLWAY COMPANIES. INCOMPANIES. AND TO ALL OXIGINATION. AND TO ALL OXIGINATION. OXIGINATION. AND TO ALL OXIGINATION. AND TO ALL OXIGINATION. AND TO ALL OXIGINATION. THE STEP AND TO ALL OXIGINATION. AND THE STEP AND TO BE ADMINISTRATION. AND THE STEP A decases will be granted, and information may be obtained, on application to the Se tary, at the Atmospheric Rallway Offices, West Strand, Trafaigar-square, Londoy, Communications addressed to Mr. Aifred Gregory, Sec. pro

PILBROW'S ATMOSPHERIC RAILWAY AND CANAL PROPULSION COMPANY.—Completely Registered.

The Right Hon. the Earl of ESSEX, Chairman.

The Right Hon. the Earl of ESSEX, Chairman.

The Right Hon. the Earl of Essex of ESSEX, Chairman.

The Right Hon. the Earl of Essex of Essex.

Lieutenant-Colonal Gilliass

F. J. Lambert, Esq.

Dr. J. G. Howlett, Resident Director

Directors of Railway and Canal Companies are informed that this company READY to GRANT LICENSES FOR, or SUPERINTEND the LAYING DO LINES on PILBROW'S ATMOSPHERIC PRINCIPLE.

The advantages offered by this method of propulsion are cheanness, increased and safety, over every other existing system, whether locomotive or atmospheric. Lie entirely avoided, the tube being buried. Also an immense saving, as well ful struction as in the working of lines, not requiring turnelling, levelling, or entire surface requires but littlemore preparation than for the common roads.

The application of this method of propulsion to Canal Marigation will be attacking incalculable advantages.

incalculable advantages.
Its superiority, efficiency, and simplicity, will be demonstrated, and explanate at the offices of the company, 6, King William-street, London-bridge.
CHARLES COLLINS, Se

DAYNE'S PATENT PROCESS FOR THE PRESERVATION AND IMPROVEMENT OF TIMBER, &c.—PATRE and LODER beg to invite the attention of Engineers, Railway Companies, Architects, and others, to the Above PROCESS, and to state that they are prepared to ERECT the necessary APPARIATUS in any part of the United Kingdom, where the quantity is sufficiently large to cover the outlay of its removal.—Further particulars can be obtained at WHITEHALL WHARF. CANNON-ROW, WESTAINSTER, or at their other stations—FLEETWOOD-ON-WIRE LANCASHIRE; UNION WHARF, SOUTHAMPTON, and WISBEACH, CAMBRIDGESHIRE.

WISBEACH, CAMBRIDGESHIRE.

SIR WILLIAM BURNETT'S PATENT, FOR THE PRESERVATION OF TIMBER, CANVAS, CORDAGE, COTTON, WOOLLEN, From THOMAS GRAMAY, ESS., M.A. F.R.S., L. and E., Professor of Chemistry, University College, London.

"After making several experiments on wood prepared by the Solution of Chioride of Zinc, for the purpose of preservation, and given the subject my best consideration, I have come to the following conclusions:—

"After making several experiments on wood prepared by the Soution of Zinc, for the purpose of preservation, and given the subject my best consideration, I have come to the following conclusions:

"The wood appears to be fully and deeply penetrated by the metallic salt; I have found it in the courte of a large prepared paving block.

"The salt, although very soluble, does not leave the wood early when exposed to the weather, or buried in dry or damp earth. It does not come to the surface of the wood by efforescence, like the crystallisable salts. I have no doubt, indeed, that the greater part of the salt will remain in the wood for years, when employed for railway alcepera, or such purposes. This may be of material consequence when the wood is exposed to the attack of insects—such as the white ant in India, which I believe would be repelled by the poisonous metallic salt.

"After being long maccenated in cold water, or erea boiled in scales, thin chips of the propared wood rotes a sansible quantity of the acide of since; which I confirmed by Mr. Topalis's test, and observing that the wood can be permanently dyed from being charged with a metallic mordant.

"I have no doubt, from repeated observations made during several years, of the valuable preservative qualities of the Solutions of Chloride of Zine, as applied in Sr. W. Burnett's process; and would rake it bosnetical action chiefly to the small quantity of this westellic salt which is permanently retained by the figuress fore in all circumstances of exposure. The oxide of since appears to alter and harden the runs of wood and destroy the solutions, by entering into chemical combination with them.

(Signed) "THOMAS GRAHAM."

"University Collage, Oct. 25, 1845."

"Press Professors Bearses and Coorses.

"Stz.—We have this day again examined the specimens of canvas and wood prepared according to the specification of your patent, and which, in the month of April, 1844, we placed in a damp cellar, where they have remained up to this date.

"We are now enabled satisfactorily to corroborate the favourable opinion expressed in our former report. The canvas remains analypy protected from all fungous vagotation and rottenness, while a corresponding sample of the same place, which had not been prepared by innueration in the solution of chloride of sinc, is entirely decayed, being mealify, rotten, black, and in places resembles thoing:

"We have also lasticy compared the strength of a fibre of a place of canvas which we prepared so greatly compared that it has in that respect sustained no injury. We are, therefore, of opinion, that your process will not, after any lapse of this, tonly to deteriorate the strength of the fibre of the unbefances in question.

"In regard to the several samples of different species of wood above advarted us, each of which was cut into two, one-half being imbuod according to the directions of your specification with the dilute solution of chloride of zinc, while the other half was left in its original condition, we have also to make a favourable report, and to repeat our opinion of the efficacy of your process as a preventative of dry-rot, and similar sources of decay; the unprepared specimens are manifesting symptoms of decay and malidew, while those which have been protected by your preparation are clean and sound.

(Signed) "WILLIAM THOMAS COOPER."

"To Sir William Burnett, E.C.H., F.R.S., &c. &c."

"Other Thomas Cooperation of the office of the other can be a secondary, and specimens may be seen at the office, 53, King William street, London-bridge.

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN
J. MURDOCH (successor and late assistant to Mr. Hebert) informs INVENTORS
and PATENTEES, that at his OFFICE they can obtain
REFERENCE TO A CLASSIFIED LIST OF PATENTS

3

THE ONLY ONE EXTANT), which shows at one view all the Patents ever granted for any articular object, whereby they may save much trouble and expense, and procure instruction not otherwise obtainable. BRITIGH and FOREIGN PATENTS OBTAINED, and USEFUL and ORNAMENTAL DESIGNS REGISTERED.

SPECIFICATIONS carefully prepared, and REPORTS of ENROLLED SPECIFICA-IONS furnished on moderate terms.

FINISHED and WORKING DRAWINGS executed with accuracy and dispatch.

PATENT IMPROVEMENTS IN CHRONOMETERS.

WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Gockspar-street
watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness
Prince Albert, begs to requaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each; is gold cases, from
28 to 210 extra. Gold horizonta) watches, with gold disk, from 8 gs. to 12 gs. each,
DENTS PATENT DIVLEDOSCOPE, or meridian instrument, is now ready for delitery.
Pamphlota containing adescription and directions for its use 1s. each, but to customers grafts.

UNDER THE PATRONAGE OF ROYALTY AND THE AUTHORITY
OF THE PACULTY.—A remedy for all di
orders of the pulmonary organs—in difficulty of breathing—in redundancy
phicym—in incipient consumption (of which cough is the most positive indication) to
order.—KEATING'S COUGH LOZENGES are free from every deleterious ingredien are of u

Str.—I have great pleasure in informing you, that the 2s. 9d. box of KEATING COUGH LOZENGES, had at your house about three weeks since, has relieved fire. Him of a bad cough, to which sie has been subject many years, especially in the winter see and a considerable portion of the losenges are on hand, nor has she, for the hast fart night, had any occasion to use them.

Your's respectfully.

It. S. Marten, Dover.